

AD-A108 228

COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH

F/G 15/5

MOBILITY BIBLIOGRAPHY. (U)

NOV 81 N LISTON, M MUTT, L WHITE

UNCLASSIFIED

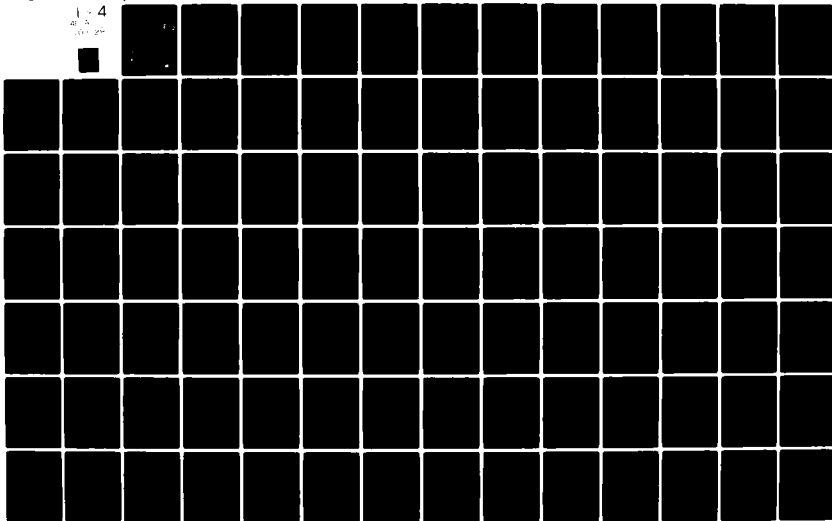
CRREL-SR-81-29

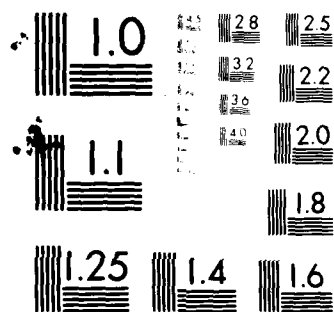
NL

1 - 4

AD-A108 228

(U) 20





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

✓  
Special Report 81-29

November 1981

AD A108228

MOBILITY BIBLIOGRAPHY

Compiled by N. Liston, M. Hutt and L. White

(12) — LEVEL

DTIC  
ELECTE  
DEC 8 1981  
S H D

(17) 333

037150

gmr

DTIC FILE COPY

DISTRIBUTION STATEMENT A  
Approved for public release;  
Distribution Unlimited

Prepared in cooperation with  
THE INTERNATIONAL SOCIETY FOR TERRAIN VEHICLE SYSTEMS



By  
UNITED STATES ARMY CORPS OF ENGINEERS  
COLD REGIONS RESEARCH AND ENGINEERING LABORATORY  
HANOVER, NEW HAMPSHIRE, U.S.A.



81 18 08 042

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER SR- Special Report 81-29	2. GOVT ACCESSION NO. AD-A108228	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle)  MOBILITY BIBLIOGRAPHY		5. TYPE OF REPORT & PERIOD COVERED
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s)  Compiled by N. Liston, M. Hutt and L. White		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS U.S. Army Cold Regions Research and Engineering Laboratory Hanover, New Hampshire 03755		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS International Society for Terrain-Vehicle Systems 72 Lyme Road Hanover, New Hampshire 03755		12. REPORT DATE November 1981
		13. NUMBER OF PAGES 319 333
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report)  Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES  Prepared in cooperation with the International Society for Terrain-Vehicle Systems.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Bibliographies Land transportation Mobility Trafficability Vehicles		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This bibliography is an international compilation of literature relating to ter- rain vehicles, amphibious vehicles, snow vehicles, air cushion vehicles, tracked vehicles, wheeled vehicles, and off-road vehicles. It also covers the related subjects of rolling resistance, traction, snow strength measurement, soil strength measurement, terrain analogs, vehicle models, and the overall topic of vehicle mobility. It is not comprehensive but begins at about 1970 and ends in 1980. The European coverage is lacking because much of this material is not accessible by computerized literature searching, which was the mechanism used for compiling this bibliography.		

DD FORM 1 JAN 73 1473 EDITION OF NOV 65 IS OBSOLETE

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)



## PREFACE

This bibliography was compiled by searching literature in five computerized data bases. The term mobility includes many topics; therefore, a breakdown was made to include ten major topics, each of which is covered by a chapter in this bibliography. Boolean logic is applied to the keywords when searching the data bases. Snow and vehicle were combined to form the index term snow vehicle to be used in the search. Thus, any reference having that index term would be identified. An index term is a device used to identify the content of a reference so that the term snow vehicle would refer to just that: a snow vehicle. A reference dealing with vehicle traction in snow would not appear in this search. The next step in the search used the index term snowmobile because snowmobiles represent a specific form of snow vehicle that would be missed in a search using only snow vehicle. The data bases used for all ten chapters and a brief discussion of each follows.

COLD is the Bibliography on Cold Regions Science and Technology, prepared by the Library of Congress and the U.S. Army Cold Regions Research and Engineering Laboratory, merged with the Antarctic Bibliography prepared by the Library of Congress for the National Science Foundation. The Antarctic Bibliography covers 1962 to date on line and the CRREL Bibliography covers 1968 to date. Content coverage includes all disciplines dealing with Antarctica, snow, ice, frozen ground, navigation in ice, civil engineering in cold regions, and behavior and operation of materials and equipment. Source materials include monographs, technical reports, journal articles, patents, conference papers, and maps. The Bibliography is international in scope and includes many foreign languages but the language is indicated on each citation for the user.

COMPENDEX is the data base of the Engineering Society and covers 1970 to date on line. Content coverage includes significant world-wide engineering literature from approximately 2,000 serials and over 900 monographs. Fields of engineering and related subject areas included are civil engineering, engineering physics, automotive engineering, transportation, instruments and measurement, control engineering, material properties, and testing, to name a few areas.

The NTIS data base was used to cover U.S. government-sponsored research and development technical reports from over 200 Federal agencies. The data base is sponsored by the Department of Commerce, National Technical Information Service and covers the period 1970 to date. The data base is multidisciplinary and includes earth sciences, materials, ordnance, mechanical and civil engineering, navigation and many more areas.

The SAE (Society of Automotive Engineers) data base was searched also. Since 1965 the SAE data base has provided access to a select number of technical papers on the technology of the automotive and automotive-related industries. All papers were presented at an SAE meeting or conference and were screened and reviewed prior to presentation. Citations represent individual papers, although a reference is given to any collection, for example Special Publication, Conference Proceedings, or SAE Transaction, in

which a paper may have been bound. Topics covered include vehicle safety, materials and structures, and testing and instrumentation, as they relate to automobiles and other self-propelled vehicles, such as trucks, tractors, snowmobiles, etc.

The last data base that was searched was TRIS (Transportation Research Information Service), which is supplied by the Transportation Research Board. TRIS is a composite file whose records are either abstracts of documents and data holdings, or resumes of research projects that are relevant to the planning, development, operation, and performance of transportation systems and their components. The collective subject scope of TRIS includes the following facets of air, highway, rail, mass transit and other transportation modes: materials, design, construction, maintenance technology, legislation and regulations, physical and economic performance characteristics, and energy, environment, and safety concerns. Research project resumes in TRIS are generally acquired directly from sponsoring agencies and performing organizations who are responsible for ongoing research in the transportation field. Document abstracts are prepared in part from primary reports, articles, and other types of transportation-related documents, and in part from abstracts acquired from other information services and centers in the U.S. and abroad. The major suppliers include U.S. Dept. of Transportation, Highway Research Information Service, sponsored by state departments of highways and transportation, the National Highway Traffic Safety Administration, and the National Technical Information Service, which cites government-sponsored reports other than those of the Department of Transportation. The time period covered is 1968 to the present. Some of the items included from this data base are ongoing projects rather than completed reports.

The chapter designations are the keywords used to retrieve the citations in the chapter. Many of the items overlap in interest among several topics. Chapter IV, Vehicle Mobility, is broad in scope and could have been broken down into more specific topics. Published items that do not appear may either be missing from the actual data base or may not have been retrieved because of indexing and keyword incompatibility.

Items with PB or AD numbers may be purchased from the National Technical Information Service, Springfield, VA 22161. The SAE publications may be purchased from the Society of Automotive Engineers, 400 Commonwealth Dr., Warrendale, PA 15096. The cold regions items may be retrieved through the Library of Congress, Photoduplication Service, Washington, DC., or the CRREL Library, 72 Lyme Rd., Hanover, NH 03755. The Engineering Societies Library, 349 E. 47th St., New York, NY 10017, is also a source for many of the general engineering items.

This is an initial computerized bibliography; corrections and additions will be made in a future edition. The search was conducted in May 1980, which is therefore the cutoff date for new entries.

The following list of keywords was used to search all the data bases mentioned. Some of these terms did not produce any citations because they were not recognized index terms: mobility, off-road vehicle, terrain-

vehicle interaction, over-snow vehicles, traction, ground vehicle morphology, vehicle model, mobility models, vehicle technology, vehicle ride, man-vehicle systems, terrain analogs, trafficability, tracked vehicles, wheeled vehicles, air cushion vehicles, amphibious vehicles, walking vehicles, walking machines, terrain-vehicle systems, soil mechanics for off-road vehicles, snow mechanics for off-road vehicles, soil strength measurement, snow strength measurement, soil classification, terrain classification, rolling resistance, bulldozing resistance.

Accession No.	
NTIS	<input checked="" type="checkbox"/>
DTIC	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Journal	<input type="checkbox"/>
By	
District	
Available	
Date	
A	

## CONTENTS

Chapter I	Snow vehicles or snowmobiles
Chapter II	Rolling resistance
Chapter III	Traction
Chapter IV	Vehicle mobility
Chapter V	Off road vehicles, tracked vehicles, or wheeled vehicles
Chapter VI	Snow strength measurement or soil strength measurement
Chapter VII	Terrain vehicles or terrain analogs
Chapter VIII	Amphibious vehicles
Chapter IX	Vehicle models or modeling
Chapter X	Air cushion vehicles

## NOMENCLATURE

### Data bases

Compendex	Engineering Index
SAE	Society of Automotive Engineers
NTIS	National Technical Information Service
TRIS	Transportation Research Information Service
COLD	Bibliography of Cold Regions Science & Technology

### Abbreviations

AU	Author
TI	Title
OTI	Other language title
SO	Source
LA	Language
IT	Index terms
OS	Organizational source
AD	Identification number for ordering from NTIS

### Language Code

Ita	Italian
Rus	Russian
Swe	Swedish
Eng	English
Jap	Japanese
Ger	German
Pol	Polish
Czech	Czechoslovakian
Nor	Norwegian

## Preface

This mobility bibliography was compiled by literature searching on five computerized data bases. The term mobility includes many topics, therefore a breakdown was made to include ten major topics which comprise the chapters in this bibliography. Boolean logic is applied to the keywords when searching the data bases. Snow and vehicle were combined to be the index term snow vehicle to be used in the search. Thus, any reference having that index term would be identified. An index term is a device used to identify the content of a reference so that the term snow vehicle would refer to just that: a snow vehicle. A reference dealing with vehicle traction in snow would not appear in this search. The next step in the search used the index term snowmobile because snowmobiles represent a specific form of snow vehicle that would be missed in a search only using snow vehicle. The databases used for all ten chapters and a brief discussion of each follows:

**COLD** is the Bibliography on Cold Regions Science and Technology prepared by the Library of Congress and the U.S. Army Cold Regions Research and Engineering Laboratory, merged with the Antarctic Bibliography prepared by the Library of Congress for the National Science Foundation. The Antarctic Bibliography online covers 1962 to date and the CRREL Bibliography covers 1968 to date. Content coverage includes all disciplines dealing with Antarctica, snow, ice, frozen ground, navigation in ice, civil engineering in cold regions, and behavior and operation of materials and equipment. Source materials include monographs, technical reports, journal articles, patents, conference papers, and maps. The Bibliography is international in scope and includes many foreign languages but the language is indicated on each citation for the user.

**COMPENDEX** is the database of the Engineering Society and covers 1970 to date online. Content coverage includes significant world-wide engineering literature from approximately 2,000 serials and over 900 monographs. Fields of engineering and related subject areas included are civil engineering, engineering physics, automotive engineering, transportation, instruments and measurement, control engineering, materials properties and testing to name a few areas.

The NTIS database was used to cover U.S. government sponsored research and development technical reports from over 200 Federal agencies. The database is sponsored by the Dept. of Commerce, National Technical Information Service and covers the period 1970 to date. The database is multi-discipline in scope and includes earth sciences, materials, ordnance, mechanical and civil engineering, navigation and many more areas.

The SAE (Society of Automotive Engineers) database was searched also. Since 1965 the SAE database provides access to a select number of technical papers on the technology of the automotive and automotive related industries. All papers were presented at an SAE meeting or conference and were screened and reviewed prior to presentation. Citations represent individual papers, although a reference is given to any collection, for example Special Publication, Conference Proceeding, or SAE Transaction, in which a

paper may have been bound. Topics covered include vehicle safety, materials and structures, and testing and instrumentation, as they relate to automobiles and other self-propelled vehicles, such as trucks, tractors, snowmobiles, etc.

The last database that was searched was TRIS which is supplied by the Transportation Research Board. TRIS is a composite file whose records are either abstracts of documents and data holdings, or resumes of research projects that are relevant to the planning, development, operation, and performance of transportation systems and their components. The collective subject scope of TRIS includes the following facets of air, highway, rail, mass transit and other transportation modes: materials, design, construction, maintenance technology, legislation and regulations, physical and economic performance characteristics, and energy, environment, and safety concerns. Research project resumes in TRIS are generally acquired directly from sponsoring agencies and performing organizations who are responsible for ongoing research in the transportation field. Document abstracts are prepared in part from primary reports, articles, and other types of transportation related documents, and in part from abstracts acquired from other information services and centers in the U.S. and abroad. The major suppliers include U.S. Dept. of Transportation, Highway Research Information Service, sponsored by state departments of Highways and Transportation, the National Highway Traffic Safety Administration, and the National Technical Information Service which cites government sponsored reports other than the Dept. of Transportation. The time period covered is 1968 to the present. Some of the items included from this data base will be ongoing projects rather than completed reports.

The chapter designations were generated by the computer in conjunction with the keywords used to retrieve the citation. They were not manually checked as to their actual pertinence to the chapter title. Many of the items have overlapping interest to several topics, Chapter IV, entitled vehicle mobility, is broad in scope and could have been broken down into more specific topics if time allowed. Items that you recognize as missing may be missing from the actual database or may have not been retrieved because of their indexing compared to our search keywords.

Items with PB or AD numbers indicated may be purchased from the National Technical Information Service, Springfield, VA. The SAE publications may be purchased from Society of Automotive Engineers, 400 Commonwealth Dr., Warrendale, PA., 15096. The cold regions items may be retrieved through the Library of Congress, Photoduplication Service, Washington, DC., or the USACRREL Library, P.O. Box 282, Hanover, NH, 03755. The Engineering Societies Library, 349E 47th St., New York, NY., 10017, is also a source for many of the general engineering items.

I emphasize that this is an initial computerized bibliography with an author index compiled by Melissa Hutt, Administrative Secretary of ISTVS. Terry Rogers, also, spent extensive time and effort proofreading the original draft. Corrections and additions will be merged for later edition and update. The original search was conducted in May 1980 therefore that is the cutoff date for new publication entries.

The following list of keywords was used to search all the databases mentioned. Some of these terms did not produce any citations because they were not recognized index terms: mobility, off-road vehicle, terrain-

vehicle interaction, over-snow vehicles, traction, ground vehicle morphology, vehicle model, mobility models, vehicle technology, vehicle ride, man-vehicle systems, terrain analogs, trafficability, tracked vehicles, wheeled vehicles, air cushion vehicles, amphibious vehicles, walking vehicles, walking machines, terrain-vehicle systems, soil mechanics for off-road vehicles, snow mechanics for off-road vehicles, soil strength measurement, snow strength measurement, soil classification, terrain classification, rolling resistance, bull-dozing resistance.

Chapter	I	-	Snow vehicles or snowmobiles.
Chapter	II	-	Rolling resistance.
Chapter	III	-	Traction.
Chapter	IV	-	Vehicle mobility.
Chapter	V	-	Off road vehicles, tracked vehicles, or wheeled vehicles.
Chapter	VI	-	Snow strength measurement or soil strength measurement.
Chapter	VII	-	Terrain vehicles or terrain analogs.
Chapter	VIII	-	Amphibious vehicles.
Chapter	IX	-	Vehicle models or modeling.
Chapter	X	-	Air cushion vehicles.

#### Nomenclature

#### Databases

Compendex	-	Engineering Index
SAE	-	Society of Automotive Engineers
NTIS	-	National Technical Information Service
TRIS	-	Transportation Research Information Service
COLD	-	Bibliography of Cold Regions Science & Technology
AU	-	Author
TI	-	Title
OTI	-	Other language title
SO	-	Source
LA	-	Language
IT	-	Index terms
OS	-	Organizational source
AD	-	Identification number for ordering from NTIS

#### Language Code

Ita	-	Italian
Rus	-	Russian
Swe	-	Swedish
Eng	-	English
Jap	-	Japanese
Ger	-	German
Pol	-	Polish
Czech	-	Czechoslovakian
Nor	-	Norwegian



Abel', E.B. - I-107, VII-167

Abele, G. - I-287, I-54, I-159, I-176, I-186, I-187, I-283, I-249, I-252, I-43, I-118, I-55, I-185, IV-208, IV-727, IV-728, IV-36, IV-10, VI-7, VI-2, VII-140, VII-91, VII-69, VII-63, VII-86, VII-60, VIII-16, VIII-71, VIII-69, VIII-5, VIII-10, VIII-9, VIII-65, VIII-64, VIII-70

Adam, K.M. - IV-30

Adams, G.H. - II-41

Adams, G.J. - IV-140

Adams, M.A. - V-66

Adzhiev, M.E. - VII-76

Afanas'erv, V.A. - I-71

Agarwal, P.D. - III-100

Ageikin, I.A.S. - I-105, VII-166

Ageikin, Ya.S. - IV-602

Ager, B. - IV-89, VI-5

Ager, B.H. - I-112, IV-191

Agranat, G.A. - VII-199, VII-135, VII-84

Ahmed, S.R. - IX-53

Air Force - III-19

Airhart, T.P. - VI-6

Akkerman, G.L. - I-80

Alden, J.T. - IV-259

Alfriend, T.B. - IV-424

Al-Hussaini, M.M. - IV-180

Ali, O.S. - III-208

Allard, P. - IV-401

Allen, C.A. - IV-498

Allen, C.V. - III-64

Anderson, A.D. - VII-104

Andersson, B. - VII-71

Andreev, V.N. - IV-49

Arango, I. - IV-390

Areshoug, S. - IV-244, VII-160

Armantrout, K.M. - IV-96

Army Advanced Materiel Concepts Agency - IV-487, IV-485

Army Arctic Construction & Frost Effects Laboratory - I-265, I-264

Army Cold Regions Research and Engineering Laboratory - I-253, IV-185, IV-85, IV-189, IV-79

Army Combat Developments Command - IV-478, IV-472, IV-476

Army Combat Developments Command Transportation Agency - IV-474

Army Concept Team in Vietnam - IV-439

Army Foreign Science and Technology Center - I-5

Army Infantry Board - IV-427

Army Material Command - IV-609, IV-441, IV-502

Army Tank-Automotive Command - IV-579, IV-580

Army Test and Evaluation Command - III-152, IV-666, IV-677, IV-675, IV-616, IV-650, IV-682, IV-508, IV-745, IV-667, IV-479, IV-671, IV-639, IV-634, IV-672, IV-612, IV-668, IV-679, IV-670, IV-646, IV-665, IV-678, IV-418, IV-673, IV-659, IV-652, IV-654, IV-614, IV-146, IV-658, IV-669, IV-575, IV-621, IV-680, IV-684, IV-651, IV-681, IV-581, IV-638, IV-674, IV-578, IV-623, IV-642, IV-655, IV-656, IV-640, IV-417, IV-494, IV-435, IV-676, IV-649, IV-507

Army Transportation Board - IV-202

Army Waterways Experiment Station - I-239, IV-603, IV-604, IV-533, IV-428, IV-423, IV-535, IV-517, IV-732, IV-177

Arnold, W.A. - III-96

Ashdown, K. - IV-194, VII-206  
Aslanov, G.A. - I-69, VII-103  
Assur, A. - IV-65, IV-66  
Atherton, D.L. - I-296, I-298  
Atkins, R.M. - IV-570  
Augustitus, J.A. - IX-50  
Austrow, H.W. - IV-101, VII-25  
Automotive Research Associates, Inc. - III-157  
Bader, C. - III-35  
Bader, H. - IV-181  
Baiano, G. - I-13  
Baker, R.N. - IV-530, IV-542  
Balabolkin, R.K. - IV-22  
Bamford, M.A.T. - I-95, VII-155  
Barata, F.E. - IV-411  
Barbarek, L.A.C. - IX-59  
Barber, V.C. - IV-288  
Barkhtanov, L.V. - IV-31, VII-79  
Barnes-Moss, H.W. - V-69  
Barone, M.R. - IX-47  
Barron, W. - III-198  
Bartlett, G.E. - IV-109, IV-705, IV-662, V-87, IX-167  
Barthelemy, J.L. - I-73  
Bauer, F. - V-97  
Bauer, P.T. - IX-76

Baumann, D.M. - III-162

Bayazitoglu, Y.O. - IX-56

Beard, W.H. - I-132, I-192, I-29, I-135, I-134, IX-9

Beattie, C.A. - VII-127

Beauregard, C. - III-57

Bechtold, R.L. - II-5

Beck, R.R. - V-101, IV-264

Bedi, G.S. - III-27

Beck, R.R. - IV-264

Bekker, M.G. - I-299, III-26, IV-211, IV-373, IV-338, V-5, VII-102, VII-39

Belangie, M.C. - III-233

Belinskii, A.I.U. - I-3, VII-143

Belousov, N.A. - IV-7

Bender, J.A. - I-266, IV-80

Benjamin, P. - IV-695

Benn, B.O. - IV-440

Bennington, G. - IV-712

Benson, C.S. - I-181, I-109, IV-196

Benson, J.L. - VIII-42

Benua, I.U.I.U. - I-164, VIII-38

Berenyi, T. - VII-18

Berezhnov, N.G. - I-52, I-53

Bergman, W. - II-43, III-232, III-70, III-52, IX-55, IX-139

Bergren, H.E. - III-105

Berman, B. III-69

Bernard, J.E. - IX-111, IX-88, IX-13  
Bernard, M. - II-58  
Bernhardt, K. - IV-399  
Beskin, I.A. - I-114, V-2, VII-175  
Bickerstaff, D.J. - III-46, IX-176  
Bilello, M.A. - I-273, I-272  
Bingham, A.F. - VIII-50  
Bird, K.D. - III-224  
Birk, E.L. - IV-270  
Bischoff, T.J. - IV-564  
Bishop, A.W. - IV-404  
Black, S.H. - V-56  
Black, W.P.M. - IV-392  
Blackmon, C.A. - IV-493, IV-521, IV-653, IV-486, IV-471  
Blake, S.E. - II-62  
Bloomfield, W. - VIII-62  
Blumberg, P.N. - IX-65  
Blundell, C. - IV-155  
Bobo, S.N. - II-49  
Bocharov, N.F. - VII-98  
Boehm, F. - II-66  
Bogdanoff, J.L. - IV-432  
Bohli, W.U. - III-186  
Bohn, . - III-221  
Bohnert, L.F. - III-43

Bondarenko, B.R. - III-185  
Bonder, S. - IV-686  
Booker, G.E. - III-138  
Borcherts, R.H. - IV-328  
Borowski, V.J. - IX-103  
Botvinnikov, V.I. - VII-146  
Boughton, J.C. - VII-67  
Bourdo, E.A., Jr. - V-51  
Boutros, A.N. - IV-563  
Boyd, P.L. - III-176, III-107, III-34, III-114,  
Boyer, J.J. - V-16  
Boyles, J.M. - I-9  
Bozek, J.M. - III-193  
Bradisse, J.L. - III-229, IV-265  
Brand, E.W. - IV-398  
Brannon, W. - IV-110, IV-38, VII-38  
Brickman, A.D. - III-166  
Brier, F.W. - IV-46  
Briggs, J. IV-562  
Britton, M.E. - IV-6  
Brooks, E.N., Jr. - VII-129, VIII-24  
Broughton, J.D. - IV-636  
Brown, A.M. - I-204, I-203, IV-201  
Brown, C. - II-8, IV-322  
Brown, D.N. - IV-134

Brown, G.J. - IX-108  
Brown, J. - IV-37, V-11, VII-138  
Brown, M.W. - X-5  
Brown, R.J. - I-251, I-246, I-234  
Brown, R.J.E. - IV-60  
Brown, R.L. - I-8, IV-182  
Browne, A.L. - III-11, III-40  
Brownfield, H.A. - IX-35  
Broughton, J.D. IV-636  
Bruck, A.B. - IV-72  
Brueck, D.M. - IX-44  
Brylov, S.A. - I-171, VII-201  
Buck, J. - VIII-3, VIII-2  
Bueler, R.C. - IX-110  
Bunn, R.D. - IV-607  
Burgmann, R.A. - IV-458  
Burt, G.R. - IV-90, IV-78, VII-200, VII-187  
Burton, G.W. - I-128  
Busi, J.D. - III-215  
Butler, J.M. - IX-116  
Butyrin, M. - I-36  
Buzuluk, O. - I-195  
Cadou, P.B. - V-64  
Calandro, J.N. - III-160  
Callahan, J.M. - IV-354

Calspan Corporation - III-167

Camm, J.B. - I-139

Campbell, K.L. - IV-348

Canadian Society for Terrain-Vehicle Systems - I-41, VII-68

Cardew, K.H.F. - I-303

Carlson, E.C. - III-97, IV-455

Carlsson, D. - IV-26

Carpentier, M. - V-14, VII-89

Carpentier, N. - I-301

Carr, C.I. - III-95

Carr, R.L. - III-88

Carson, R.W. - IV-353

Carver, G.C. - I-212

Celeri, F. - IX-82

Chalmers, W.G. - IV-231, IX-98

Chang, M. - III-190

Chaplin, J.B. - VIII-4, VIII-54, X-3

Chapman, R.M. - VIII-18

Cheremisinov, M.M. - I-208

Cherkasov, A.I. - VII-176

Cherkasov, I.I. - IV-23

Chiang, S.L. - IX-43

Chiesa, A. - IX-156

Chikamori, S. - III-213

Chin, F.K. - IV-279



Chocholek, S.E. - III-60  
Christensen, D.E. - IV-403  
Chu, M. - IX-31  
Chu, M.L. - VII-3, IV-257  
Chudakov, D.A. - IV-44, VII-113  
Clark, E.F. - VII-85  
Clark, G.M. - IV-504  
Clark, S.J. - IV-461  
Clark, S.K. - II-68, II-48, II-63, II-50, II-10, II-51, IV-317, IV-329  
Clifford, M. - V-46, V-49  
Cobb, W.A. - IX-25  
Cochran, T.E. - V-54  
Cochrane, H.C. - I-235  
Coddington, D.M. - IV-314  
Coffin, R.C. - IV-74  
Cohen, V. - VIII-26  
Cohn, C.E. - II-56  
Cohron, G.T. - IV-463  
Colbeck, S.C. - I-256  
Cole, L.M. - IV-303  
Coleman, R.N. - III-202  
Collard, M. - IV-405  
Colquhoun, L.R. - VIII-55  
Comstock, K.G. - IV-116  
Converse, V.G. III., - V-102

Cooper, A.W. - IV-304  
Cooper, D.W. - VII-70  
Copeland, R.J. - IV-736  
Corcoran, P.T. - IV-320  
Cornell, C.R. - V-65  
Cortese, A.D. - III-75, IX-178  
Costes, N.C. - IV-585  
Costin, F. - IV-367  
Cottingham, E.R. - IX-77  
Coughran, S.J. - V-59  
Courtial, A.W. - VII-180  
Crary, A.P. - I-33  
Criswell, A.W. - IV-158  
Cronin, J.E. - I-250  
Croscheck, J.E. - IV-600  
Crowe, D.T., Sr. - IX-78  
Crum, W.B. - II-52, II-60, IV-374, IV-372  
Cullen, R.M. - IV-87, IX-8  
Curtiss, W.W. - II-27  
Daberkoe, C.W. - IX-134  
Dagan, G. - IV-706  
Dais, J.L. - III-125, IV-473  
Danecker, G.W. - IV-631  
Danielan, A.A. - VII-202  
Danzer, J. - III-196

Da Rios, G. - IV-236

Davenport, C.J. - IX-90

Davis, D.D. - III-220

Davis, J.C. - IX-123

Davis, L. - III-65, IV-233

Davis, R.L. - VII-16

Davisson, J.A. - III-94

Dayman, B., Jr. - II-19, IV-364

Dean, R. - VII-1

Decell, J.L. - IV-491

Deeter, W.F. - V-91

de Lime, T.L., III. - V-48

Della-Moretta, L. - IV-335

De Martinis, S.A. - IV-546

Den Hartog, S.L. - IV-35

Denison, J.B. - V-12, I-61

Denn, P.D. - IV-310

Department of Army - I-282, I-145

De Quervain, M. - VI-9

DeRaad, L.W. - II-13, III-32, IV-345

DeVinney, W.E. - III-99

Diamond, M. - I-189, IV-187

Dibbern, J.S. - I-17, I-38, III-2, VII-83

Dickinson, T.W. - III-37

Dickinson, W.E. - III-21

Difiglio, C. - IV-420

Dobbins, J.E. - II-65, III-142, III-141, IV-541

Dobie, W.J. - III-83

Dobson, F.A. - IV-731

Dogaev, IU.M. - IV-218

Doman, J.J. - I-127, I-126

Donovan, D.L. - I-305, I-284

Doran, B.J. - III-158

Dornbusch, W.K., Jr. - IV-444, IV-576

Dornfeld, K.A. - IX-129

Dorofeev, A.G. - IV-45

Douglas, B.E. - IV-174

Douglas, O. - IV-111, V-90, X-4

Dowgiallo, E.J., Jr. - III-108, III-183, IV-162, IV-150, IV-148, IV-147, IV-160, IV-275, VII-8

Doyle, G.R., Jr. - V-22, IX-26

Dreyer, R.E. - III-104

Drope, M. - IV-18

Dugoff, H. - III-78, III-159, IV-595, IX-166

Dull, D. - III-29, IX-17

Dunlap, D.F. - III-225

Durham, G.N. - III-126, IV-489

Durso, J.P. - IV-475

Duthion, L. - V-30

Dwyer, M.J. - IV-359

Dykins, J.E. - I-248, VII-145

Eckles, A.J., III. - IV-566  
Ecklund, E.E. - V-63  
Edlund, R. - V-50  
Edwards, D.C. - IV-617  
Edwards, T.B. - VIII-52  
Efremenko, V.P. - IV-212  
Eggington, W.J. - VII-177  
Ehrgott, J.Q. - IV-410  
Ehrlich, I.R. - IV-125, IV-561, IV-120, IV-661, IV-691, IX-158  
Elkins, A.O. - IV-104  
Elliott, D.R. - II-25, IV-389  
Ellsworth, W.M. - VIII-44  
Elpatevskii, M.M. - IV-664  
Elsenaar, P.M.W. - II-45  
El'tes, M.I. - VII-44, VIII-1  
Emanuel, J.C. - IV-550  
Engen, D.L. - VII-93  
Environmental Protection Agency - I-254  
Erlbaum, N.S. - IV-175  
Ervin, R.D. - III-207, III-223, III-45, III-123, III-137, III-124, III-130, III-120, III-119, III-118, III-117  
Eshleman, R.L. - IX-96, IX-95  
Eskelson, R.W. - I-232, I-233  
Eubanks, A.C. - V-93  
Evans, M.N. - VII-97  
Faherty, K.F. - II-17

Fancher, P.S. - III-47, III-175, III-144  
Farrar, J.J. - VII-32  
Faulkner, C. - VII-172  
Ferber, E. - IV-297  
Fielding, P.G. - V-96, X-2  
Figart, W.T. - IX-138  
Firth, D. - V-78  
Flanigan, D.L. - IX-107  
Fleming, R.D. - IX-63  
Floyd, C.W. - II-24, IV-386  
Flynn, L. - III-113  
Fomin, A.E. - VII-110  
Footit, J.E. - III-39  
Forsyth, R.W. - IV-113, IV-415, IV-245, V-89, VII-159, IX-152  
Fort, D.M. - V-94  
Fowler, H.S. - VII-115, VIII-15, VIII-22  
Foster, C.R. - IV-468  
Freitag, D.R. - I-108, III-172, IV-694, IV-606, IV-605, IV-601, IX-182  
Fremling, S. - IV-17  
Friedman, D. - IV-128  
Frisch, G.D. - IX-60  
Frost, R.E. - IV-240, VII-107  
Fujikawa, T. - I-219, I-307  
Fujiwara, Y. - IX-124  
Gaberson, H.A. - III-128

Gaddy, L.D., Jr. - IV-717  
Gardner, C.N. - IV-132  
Gardner, E.R. - IV-361  
Garnault, A. - X-13  
Garner, A.M. - VII-30, VII-188, X-8  
Garrett, E.E. - IV-434, IV-446  
Garrett, K. - I-293, IV-327  
Gatto, L.W. - VII-123  
Gavan, G.R. - IV-501, IV-525, IV-547, IV-548  
Gay, R.R. - IV-108, VII-144  
Gee-Clough, D. - IV-315  
Gelb, G.H. - III-86, IX-145  
George, R.J. - IX-105  
Gerasimov, V.N. - IV-193  
Gerdel, R.W. - I-160, I-184, III-5, IV-251  
Gerstel, L. - IV-97  
Gersten, A. - VIII-45  
Gillespie, T.D. - IX-68, IX-30  
Gilvin, L.P. - IV-266  
Gimein, S. - IV-197  
Giudicetti, F. - IV-43  
Glabina, N.K. - VII-43  
Glemming, D.A. - II-20, IV-375  
Goda, H.L. - IV-688  
Goertzen, G. - V-60

Gokmen, A.G. - IV-382  
Goodenow, G.L. - IX-153  
Goodman, L.J. - IV-252  
Gorbeshko, M.V. - IV-1, VII-54  
Gorbunov, IU. - VII-186  
Gorton, J.V. - I-243  
Govorukhin, A.M. - IV-53  
Grabau, W.E. - IV-720, IV-608  
Gran, R. - VIII-11, IX-2  
Grant, J.W. - IV-543, IX-83, VII-17  
Grant, R. - IV-4  
Graumlich, A.J. - V-27  
Gray, G.W. - IV-451  
Gray, J.T., Jr. - IX-144  
Green, A.J. - IV-168  
Green, A.J., Jr. - III-121, IV-442, IV-452, IV-465, IV-456, IV-598  
Green, C.E. - III-201, IV-416, IV-497, IV-524  
Green, J.E. - IV-466  
Gross, D.S. - IX-161  
Grotewohl, A. IX-175  
Grunther, R.G. - VIII-21  
Gruienne, P.F. - VIII-43  
Gur'ev, IU.S. - VII-151  
Gurganious, J.T. - IV-555, IV-495  
Gurney, J.W. - IX-172



Gurov, O. - I-173

Gusakov, I. - II-44, II-32, II-40, IV-356, IV-358

Gwyer, J. - IV-708

Gyenes, L. - III-106

Haas, R.H. - III-72

Habercom, G.E., Jr. - II-35, III-132

Hagg, B. - IV-25, VII-75

Haines, W.M. - I-230, I-309

Hainline, B.C. - III-74

Hales, F.D. - III-79

Haley, P.W. - IV-724, IV-699

Hall, G.A. - VII-95

Hamann, W.C. - IX-157

Hanamoto, B. - I-104, I-50, I-67, I-191, I-158, I-81, III-6, III-8, IV-554, IV-522, IV-523, IV-429, VII-162, VII-80, VII-101

Hansen, R.W. - I-240

Harder, A. - V-103, X-12

Harris, J.D. - V-53

Harris, W.A. - IV-139

Harrison, M.C. - V-40

Harrison, R.T. - I-63, VII-92

Harrison, W.L. - I-23, I-79, III-1, IX-179

Harvey, A.F. - II-72

Harwood, T.A. - I-60, IV-63, V-13, VII-87, VII-173

Hatchwell, J.A. - VIII-27

Hawks, K.H. - VII-12

Hazemoto, T. - IX-93

Hazzard, H.I. - I-222, I-229, I-305, I-314

Hearn, D.L. - IV-267, V-29, X-16

Heberlein, D.C. - IV-161

Heckman, R.T. - IV-741

Heffley, R.K. - IX-168

Heine, A.J. - I-200

Hemstock, R.A. - IV-92

Henderson, T.B. - IV-633

Henke, K.F. - IV-56

Henry, E.K. - III-90

Herb, H. - IV-551

Herbst, G.D. - III-62

Herling, W.R. - IV-106 , V-104, IX-147

Herman, A. - IX-149

Herod, D.M. - IX-99

Heslin, J.G. - IV-151

Hetherington, J.G. - IV-324

Hibler, W.D., III. - III-236, IV-544, IV-241, IV-58, VII-81, VII-108, VII-111, VIII-13, VIII-19, VIII-23, IX-6, IX-5

Hickner, G.B. - IX-104, IX-132, IX-140

Hicks, J.G. - IV-559, IV-519

Hieronimus, K. - IX-51

Hill, S.H. - IX-52

Hirsch, N.R. - III-226

Hirst, E. - IV-377

Hissong, C.F., Jr. - V-25  
Hjeljord, O. - IV-214  
Hobson, D.E. - IV-300  
Hodgetts, D. - IX-84  
Hodges, H.C. - III-174  
Hoekstra, P. - IV-256  
Hoenes, W.W. - III-59  
Hoepfl, J.R. - IX-75  
Hogbin, L.E. - I-276  
Holdridge, L.R. - IV-722  
Hollnagel, H.E. - I-313  
Holmes, H.R. - IX-67  
Holubec, I. - IV-406  
Hoop, H.H. - IV-715  
Hoppe, C.H. - IV-119, VII-41, IX-154  
Horne, W.B. - I-263, I-241, III-50, III-115, III-203, III-16  
Hosoya, M. - I-91, I-65, I-28, I-35, IV-220, VII-133, VII-64, IX-3  
House, W.C. - IV-98, X-7  
Howe, G.H. - IV-107, V-88, IX-146  
Howell, L.J. - VII-31  
Hucho, W.H. - IX-109  
Hunt, J.D. - IV-342  
Hupkes, G. - IV-176  
Hurford, E.C. - IV-103, VII-28  
Hurst, C.G. - V-57  
Huston, J.C. - IX-10, IX-24

Hutchinson, J.F. - III-84  
IAnkin, V.M. - I-198, I-103, I-174, I-147, III-22  
Ichihara, K. - I-162  
Igarashi, H. - IV-34  
Ikeda, K. - VIII-48  
Ilon, B.E. - VII-131  
Imhoff, L.A. - VII-203  
Irwin, G.J. - I-7, V-18  
IUvenal'ev, I.N. - I-116  
Ivankov, P. - IV-59  
Ivanor, E. - I-59  
Ives, G. - VII-147, VIII-34  
Ives, J.D. - VII-125  
James, D.H. - IV-261, IV-277  
Jansen, D. - I-157, VII-196  
Janosi, Z. - I-231, I-304  
Janowski, W.R. - I-225  
Jaquette, S.C. - IX-20  
Jespersen, H.A. - VII-27  
Jewett, J.W. - V-52  
Johnsen, J.L. - III-149, IV-641  
Johnson, D.B. - IX-23  
Johnson, G.A. - V-100  
Johnson, K.L. - II-73  
Johnson, L. - IV-369  
Johnson, R.M. - IV-102

Jones, A.W. - IV-713, IV-742  
Jones, C.S. - III-81, IV-615  
Jones, E.W. - VII-4  
Jones, T.O. - III-44  
Julien, C.A. - IX-142  
Jurkat, M.P. - IV-294, IV-618, IV-557, IV-528  
Jurkat, P. - IV-528  
Kabakov, N.S. - I-154, III-18  
Kaifesh, M.W. - I-245  
Kalen, S.E. - V-39  
Kane, T.R. - IX-12, IX-22  
Kaplan, M.H. - IV-302  
Karaban, G.L. - I-76  
Karafiath, L.L. - III-109, III-145, IV-421, IV-32, IV-8, V-15, V-17, VII-78, VII-52  
Karleen, C.I. - I-224  
Karlstrom, L. - I-21, VII-59  
Karnopp, D. - IV-326  
Kartashov, S.N. - I-271, IV-16  
Katunskii, A.M. - I-12  
Kay, B. - VII-179  
Kaye, M.C. - III-91  
Kearns, R.W. - III-111  
Keenan, R.E., Jr. - IV-586  
Keller, A.T. - I-217  
Kelley, D.M. - III-66

Kelley, J.D., Jr. - III-93, III-205  
Kelly, J.J. - VIII-41  
Kemper, Y. - III-28  
Kemshall, R. - I-196  
Kennedy, J.G. - IV-560, IV-630  
Kenyon, L.W. - IV-643  
Kerfoot, D.E. - IV-216  
Kevan, P.G. - I-143, VII-185  
Keyes, D. - IV-20  
Khanzhonkov, V.I. - VII-165  
Khazin, B.G. - VI-10  
Khlebnikov, A.M. - VII-46, I-4  
Kho, J.K.H. - I-213  
Khodakov, V.G. - VII-183, I-146, IV-50  
Khromov, M.K. - IV-380  
Kielgas, H. - III-188  
Kienle, R.N. - III-55, III-68  
Kihlgren, B. - I-15, I-247, II-2  
Kind, W.H. - IV-117, V-98  
King, C.W. - IV-306, IV-112  
King, M.W. - VII-22  
Kinney, F.L. - VII-15  
Kirkwood, T.F. - IV-370  
Kirtland, J.A. - V-35  
Kjellin, P. - I-75, V-8, VII-116  
Klaas, R.N. - V-81

Klamp, W.K. - III-98, IV-347  
Klein, R.E. - IV-321  
Klimek, A. - IV-484  
Klimenko, A.I. - I-74, VII-112  
Kloc, I. - IV-689  
Klochkov, IU. - I-210  
Knight, R.E. - II-4  
Knight, R.J. - III-38  
Knight, S.J. - I-238, IV-467, IV-574, IV-589, IV-590  
Koch, B. - III-136  
Koch, L.G. - IX-122  
Koehler, K.A. - IV-281  
Koenig, L.S. - I-292  
Kogure, K. - IV-39  
Kohn, T. - IX-143  
Koliffrath, M.G. - IV-714  
Kolb, C.R. - I-242  
Kolotushkin, A. - III-231  
Kondo, M. - IV-388  
Kordenbrock, J.U. - VIII-20  
Korsak, V.K. - I-106, VII-47, VII-164  
Korst, H.H. - II-38, IV-341  
Korytov, N.V. - I-172  
Kosevich, R.S. - IV-744  
Kostoff, P. - IV-718  
Kostogryz, S.G. - IV-198

Koutsy, L.J. - V-62  
Krauter, A.I. - IX-115  
Kreb, H.B. - V-83  
Krenkel, P.A. - IV-425  
Kress, J.H. - V-37  
Krinitzsky, E.L. - IV-407  
Kriukov, E.A. - VII-152  
Krivoshein, M. - I-94  
Krolikiewicz, M. - IV-663  
Kronogard, S.O. - III-102, IX-165  
Kugath, D.A. - IV-558  
Kulikov, A. - IV-539  
Kummen, H. - I-223, IV-95  
Kurajian, G.M. - IX-130  
Kuroda, M. - I-37  
Kuroiwa, D. - I-149  
Kurtukov, I.A.M. - I-1  
Kuvshinov, I.A. - IV-228  
Kyropoulos, P. - IX-119  
Lade, P.V. - IV-395  
Lake, L. - I-228  
Lam, C.P. - IX-15  
Lancaster, W.V. - IV-210  
Landauer, J.K. - I-183  
Landi, G. - I-14  
Landon, G.W. - IX-137



Lane, W.J. - IV-510  
Langway, C.C., Jr. - I-179, IV-726  
Lanyon, J.J. - I-178  
Larsen, T.L. IX-70  
Lassaline, D.M. - IV-723  
Latvala, E.K. - X-15  
Lavrent'ev, V. - I-194  
Lawson, L.J. - III-179  
Lehfled, K.H. - I-66  
Leighty, R.D. - I-119, IV-250, VII-194  
Leland, T.J. - III-146  
Leppert, A.M. - VII-7  
Le Schack, L.A. - IV-305, IV-290, VII-154  
Leslie, H.C. - IV-204  
Lessem, A.S. - IV-647, IV-283  
Lewandowski, J. - II-31  
Library of Congress - I-275  
Lidstrom, M. - II-1  
Liles, A.W. - II-47, IV-362  
Liljedahl, J.B. - III-178  
Lindhorst, P.K. - III-49  
Linnenbrink, T.E. - IV-282  
Lins, W.F. - V-85, VII-29  
Lipman, G. - I-209  
Lippman, S.A. - II-12, IV-331, IX-45, IX-173

Liston, R.A. - I-291, III-239, III-237, IV-124, IV-171, IV-213, IV-247, IV-426, IV-702, V-95, VII-132, VII-141, VII-169, VII-158, VII-150, VIII-28, VIII-29, VIII-35, VIII-33, VIII-39, X-14

Ljungstrom, O. - VIII-63

Lloyd, S.E. - II-11, IV-330, X-14

Locke, W.S. - IX-120

Lockie, P.E. - IV-99

Lodico, N.J. - I-257

Lohnes, R.A. - VI-1

Long, J.B. - IX-1

Lou, A.Y.C. - II-67, IV-316

Luchinskii, N.D. - III-156

Luchter, S. - IV-352

Lund, I.A. - IV-692

Lustenader, E.L. - III-210

Lutton, T.C. - VIII-17

Lynn, D.K. - IV-312

Lysenko, L.Kh. - I-51

Maaityaais, M. - IX-72

MacDuff, S.I. - III-85

MacFarlane, I.C. - IV-81

Maeda, Y. - III-206

Magnussen, G.L. - IV-246, V-1

Maita, S. - I-31

Majcher, J.S. - IX-66

Malenkov, A. - I-2

Mallikarjunarao, C. - IX-29

Maloney, J.C. - I-281  
Malygin, V.A. - I-45  
Mamoun, M.M. - II-70  
Man, G.K. - V-23  
Mantle, P.J. - VIII-49, VIII-47  
Marcus, A. - III-182  
Markow, E.G. - V-38  
Martin, J.F. - III-235  
Martin, L.E. - IV-166  
Martz, J.W. - IX-85, IX-34  
  
Marx, J. - IV-379  
Maryniak, J. - IV-368  
McAdams, H.T. - IV-709  
McClelland, W.A. - IX-80  
McDaniel, A.R. - IV-448  
McGhee, R.B. - IV-230  
McGrath, L.R. - V-33  
McGrew, J.F. - II-16, IV-333  
McHenry, R.R. - II-26, III-152, VII-35, VII-24, IX-128  
McKechnie, R.M., III. - IV-287, IV-645, IV-697  
McKenzie, R.D. - IV-126, VII-40, IX-160  
McKeon, C.E. - V-47  
McKnight, A.J. - I-261  
McLean, R.G. - IV-490  
McMorran, J.B. - X-1  
McNicholas, R.J. - IV-133

McNutt, B. - IX-33  
McRae, J.L. - III-173, IV-730, IV-173  
Medley, J. - III-61  
Megerlin, F.E. - I-294  
Melamed, V.G. - IV-254  
Mellinger, F.M. - IV-733  
Mellor, M. - I-182, III-20  
Melnikov, E.S. - III-147  
Melzer, K.J. - IV-626, IV-622, IV-505, IV-169, IV-477  
Mencik, Z. - IX-37  
Metz, L.D. - IX-106  
Meyer, M.P. - I-306, I-253, IV-480, IV-518, IV-437  
Meyer, W.E. - III-73, III-164  
Michigan Technological University - I-282  
Mikhailov, I.U. B. - I-49  
Mikhailov, P.M. - IV-215  
Mikhailov, V.V. - VII-42  
Mikhailovskii, A. - I-90  
Mikulcik, E.C. - IX-135  
Miller, P.M. - IV-700  
Miller, R.H. - VII-170  
Mironov, A. - I-290  
Miszklevitz, S.L. - IV-291  
Mitchell, J.K. - IV-391, IV-412  
Mock, S.J. - VII-136, VIII-30  
Moesta, A.W., Jr. - IX-151

Moffitt, J.V. - IV-538  
Moldenhawer, A. - I-170  
Molinier, R. - IV-376  
Moore, R.G. - X-10  
Moran, J.H. - III-71  
Morelli, A. - IX-64  
Morello, L. - III-31, IX-28  
Morman, K.N., Jr. - VII-34, IX-57  
Morris, B.L. - IV-627  
Morris, E.C. - VII-139  
Morse, I.E. - VII-14  
Moser, E.H. - I-138, I-137, I-285, I-131, I-193, IV-75  
Moser, R. - III-133  
Mosher, R.S. - V-86  
Motta, R. - IV-48  
Murayama, M. - I-92  
Murchison, H.G. - VII-121, VIII-25  
Murphy, N.R., Jr. - IV-648, IV-632, IV-545, IV-596, IV-460  
Murphy, R.W. - IX-133  
Murrell, J.D. - IX-71  
Muto, S. - IX-181  
Myrick, E. - IV-568  
Nadrshin, T.K. - I-96, IV-229  
Naft, M.H. - V-71  
Nagy, L.T. - IX-87  
Nakamura, I. - IX-19

Nakkell, E. - IV-13

National Aeronautics and Space Administration - III-180

National Highway Traffic Safety Administration - III-211

National Safety Council - III-234, III-222, III-168

Nault, J. - I-302

Naval Civil Engineering Laboratory - I-86, I-20, I-85, I-111, I-87, I-19, I-88, I-89

Naval Ship Research and Development Center - VIII-6

Neese, M.D. - III-331

Neese, M.P. - IV-431

Neill, A.H., Jr. - III-150, III-170, III-116, III-3

Neuheuser, H. - IV-289

New Brunswick University - IV-2, IV-3

Newman, J.A. - I-227, I-221, I-306, I-310

Ng, W.K. - IV-137

Nichols, L.G. - VII-163

Niemeyer, W.A. - IV-153

Neimi, E.W. - IV-577

Nikolaev, A.F. - I-175, VII-182, VII-205

Nikulin, V. - I-207

Nilson, L. - I-117

Nilsson, G. - IV-24

Nishibori, E. - I-201

Nodell, W.R. - IV-262, VII-11, X-17

Nordeen, D.L. - IX-159

Nordstrom, D.A. - I-220, I-308

Novikov, I.U.P. - IV-206

Nurmiev, G.N. - I-10

Nuttall, C.J., Jr. - IV-253, IV-515, IV-284, IV-430, V-3, IX-174

Oberg, G. - IV-9

Oblizajek, K.L. - II-22, IV-384

Obojski, M. - III-219

Odier, J. - III-80

Ohtsubo, K. - IX-74

Okada, T. - IX-101, IX-141

Okamura, A. - IV-226

O'Keefe, P.J. - IX-48

Oldershaw, R.M. - IX-100

Olsson, G.R. - IX-112

Onafeko, O. - III-25

O'Neill, E.B. - X-19

Orlandea, N. - IX-169

Pabon, R.J. - IV-165

Paddison, F.C. - IV-57, VIII-58

Padovan, J. - IV-346

Page, J.M. - VII-26

Paige, R.A. - I-277, IV-70

Panny, W.P. - III-82

Panov, V.I. - I-197, I-47

Parekh, C.J. - IX-49

Parfenov, N. - I-236

Parks, J.A. - IV-453

Parnell, P. - I-156  
Parrott, W.H. - I-57  
Parry, J.T. - IV-704  
Parry, R.H.G. - IV-409  
Parry, S.H. - IV-516  
Pates, B.A., Jr. - IV-503  
Patil, A.S. - IV-138  
Patin, T.R. - IV-610, IV-611  
Paul, D.L. - VII-20  
Paul, D.S. - V-58  
Pavlics, F. - IV-129  
Pavlov, L.N. - IV-38  
Pearson, F. - I-166  
Penaluna, K.D. - IV-305, IV 274  
Pentyukhov, V.I. - IV-313  
Pepoy, R.A. - IX-69  
Perez, D.J. - X-18  
Pershing, R.L. - IX-126  
Petelski, N. - III-54, IV-232  
Peterson, K.G. - III-53, III-48  
Petring, F.W. - III-169, IV-286  
Phelps, R.E. - II-37, IV-336  
Pierce, J.R. - II-64  
Pierce, N.E. - I-121, I-123, IV-221, IV-223, VII-181, IX-7  
Pierrot, V.C. - IV-234  
Pihlainen, J.A. - IV-186



Pikul', V. - VII-50

Pleuthner, R.L. - IV-710

Pomroy, W.H. - V-68

Poore, B.B. - V-82, IX-117

Pope, R.G. - IV-385

Pope, W.S. - IV-569

Pozdeev, E.A. - I-97, III-14

Prasad, K.K. - I-214

Prevorsek, D.C. - IV-344

Pules, M.L. - IV-94, V-79

Qualle, T.W. - IX-18

Radforth, J.R. - V-19, V-7, VII-51, VII-161, VII-192, VII-128, VII-105, VII-65, VII-120, IV-54, IV-41, IV-19, IV-47, IV-227

Radtke, R. - II-53

Ragozin, B.K. - IV-192

Randolph, D.D. - IV-514, IV-459, IV-154, IV-152, IV-144, IV-145, IV-549, IV-445

Rau, J.L. - V-80

Rawat, P.C. - IV-393

Reed, T. - IV-179

Reimers, K.W. - VII-171

Rhoads, E.M. - VIII-32

Riabov, V.P. - I-70, VII-106

Ribarits, J.I. - IX-27

Richards, A.F. - IV-408

Richards, E.A. - V-28

Richardson, B.Y. - IV-304

Rickard, W.E. - IV-15, V-10, V-6, VII-168, VII-118, VII-134, VIII-66, VIII-67  
Riddell, F.R. - IV-141, IV-143, IV-142  
Rieli, A. - IV-121  
Rikhter, G.D. - I-289  
Ringer, T.R. - I-18, I-99  
Rishavy, E.A. - IV-36, V-36  
Rishel, E.B., III. - IV-481  
Rising, K.E. - IV-52  
Roach, C.D. - IV-725  
Robinson, J.H. - IV-464, IV-311  
Roesler, D.J. - IV-703, IV-293, V-77  
Roesler, W.J. - IV-743  
Rogers, T.H. - IV-366  
Rogozhin, V. - IV-527  
Rohde, S.M. - III-41  
Ross, B. - I-237  
Rountree, J.L.H. - IV-307  
Rukavishnikov, S.V. - I-148, I-46  
Rula, A.A. - I-100, IV-588, IV-172, IV-123, IV-499, IV-178, V-92  
Rush, B.G. - IV-222  
Rush, E.S. - III-122, IV-520, IV-436, IV-62, IV-587, IV-592, IV-40, IV-443, VII-100  
Ruzhitskii, E.I. - I-165, VII-197  
Rymes, J.E. - IV-224, VII-49, VII-55, VII-48  
Sachs, E.H.K. - IV-309

Sacia, S.R. - III-204  
Saibel, E. - IX-164  
Sainsbury, J.H. - IV-371  
Sakai, H. - III-191  
Salamon, K. - III-195  
Salisbury, N.E. - IV-565  
Samuel, A.J. - V-24  
San Juan, E.C. - IV-740  
Sapp, T. - III-92  
Sargent, N.B. - III-194, III-192  
Sartori, E. - IV-190  
Satake, M. - III-63  
Sawada, K. - IV-88  
Sboev, V.V. - I-6  
Schaerer, A. - IV-86  
Schanhals, L.R. - I-215  
Scheurich, P.R., Jr. - I-113, VIII-37  
Schindler, J.F. - VII-94  
Schoenwald, E. - IV-400  
Scholander, J. - IV-27, IV-28, IV-238, VII-74  
Scholl, R.D. - IX-183  
Schreier, H. - IV-5  
Schreiner, B.G. - I-259, III-131, IV-301, IV-135, IV-268, IV-296, IV-482, IV-511, IV-512  
Schreiner, B.S. - VII-21  
Schubert, D.W. - VII-33

Schulze, K.H. - II-33  
Schuring, D. - III-58  
Schuring, D.J. - II-55, II-54, II-71, IV-36, IV-355, IV-365, II-40  
Schwarzhoff, J.E. - IV-11  
Scott, A.L. - I-140  
Scott, J.A., Jr. - IV-552  
Seaberg, J.D. - IX-114  
Segal, V.A. - I-155  
Segel, L. - IX-155  
Seitz, N. - II-61  
Sela, A.D. - IV-625  
Selivanov, I.I. - IV-14, IV-660, VII-58  
Sellin, L. - IV-12  
Selna, L. - IX-136  
Semenov, V.M. - VII-190  
Sen, P.C. - III-216  
Senac, G. - I-297, III-218  
Sexton, M.L. - I-64, VII-96  
Shabelski, J.J. - IV-496  
Shamburger, J.H. - I-244, IV-628, VII-45  
Shapovalov, I. - IV-82  
Shearer, J. - III-230  
Shenfil, L. - VIII-12  
Shepherd, P.D. - II-18, IV-360  
Sherif, M.A. - IV-413

Sherwood, G.E. - IV-203  
Shestakov, I. - I-110  
Shevchenko, L.A. - IV-84  
Shirkov, A.S. - III-23  
Shockley, W.G. - IV-599  
Shoikhet, B.M. - I-153, VII-191  
Shopalovich, P. - III-135  
Short, A.D. - IV-61  
Shryock, R.A. - VII-9, IX-170  
Shugurov, L.M. - I-116, VII-174  
Shupe, D.S. - II-46, IV-357  
Siddall, J.N. - VII-207  
Siegla, D.C. - IX-32  
Silvennoinen, U. - I-56, IV-239  
Simakov, E. - I-163, VII-198  
Simon, H.P. - IV-696  
Simons, W.K. - IX-73  
Sinclair, A.H. - IV-583  
Singh, D.V. - V-44  
Sinnamon, J.F. - III-143, III-139  
Siorek, R.W. - IV-269, IV-513, IV-573, V-43  
Sisson, T.R. - IX-79  
Skinrood, A.C. - I-180  
Skotnikov, V.A. - IV-68  
Slaughter, C.W. - IV-207, V-20, VII-90, VIII-72

Sliwa, H. - III-227  
Slobin, G.P. - I-144  
Sloss, D.A., Jr. - IV-258, IV-698, V-26, IX-171  
Smieja, L.R. - I-206  
Smirnov, V.I. - IV-42  
Smith, C.K. - VII-23  
Smith, D.W. - V-73, IX-46  
Smith, F.A. - I-32  
Smith, F.G. - IV-644  
Smith, J.L. - I-226, II-30, III-148, IV-597, VI-8  
Smith, J.R. - II-15, IV-332, IX-39  
Smith, L.A. - IV-396  
Smith, M. - IV-67, VIII-8, IX-4  
Smith, R.P. - IV-483  
Smith, T.G. - I-39  
Smithson, F.D. - III-76, III-228  
Snider, W.L. - IV-308  
Soltis, R.F. - III-181, III-187  
Spanski, P.L. - IV-449  
Sparks, H.C. - III-154  
Speckhart, F.H. - IX-102  
Spelman, R.H. - III-77  
Speyer, A.G. - III-33  
Spitzer, R.L. - III-127, IV-506  
Sponsler, W.B. - IV-130, IX-163

Stearns, S.R. - I-288  
Stehle, N.S. - I-268, I-280, I-279  
Steig, R.W. - IV-278  
Steltner, H.A.R. - IV-205  
Stenger, F.J. - III-200  
Stepanov, A.P. - VII-109  
Stephens, J. - VII-6  
Stephens, J.E., Jr. - IV-164, IV-163, IV-159, IV-157  
Sterrett, K.F. - IV-500, VIII-68  
Stevens, H.W. - IV-93  
Stevens, R.B. - V-74  
Stevens, R.D. - III-110  
Stiebel, A. - IV-340  
Stieg, R.W. - IV-278  
Stilbans, Z. - IV-556  
Stinson, B.G. - IV-462  
Stokes, L.S. - IV-739  
Stoll, J.K. - IV-419  
Strauss, A.M. - V-55  
Stuller, J. - IV-470  
Stuller, J.G. - IV-457  
Sugarman, R.C. - IV-707  
Suhler, S.A. - IV-540  
Sullivan, E. - III-214  
Sullivan, P.A. - VIII-61, X-9  
Summer, N.R. - IV-219

Supcoe, R.F. - VIII-7  
Svensen, D.J. - V-70  
Svitov, I. - VII-149  
Swanson, G.D. - IV-637, IV-529  
Switzer, G.G. - IV-613  
Szten, E.M. - IV-693  
Takaoka, I. - III-67  
Tanner, J.A. - II-39  
Tarkhanovskii, V. - IV-591, VII-208  
Tarpinian, H.D. - II-6, IV-319  
Tashjian, R.C. - IV-105, VII-36  
Taulu, D. - III-42  
Taylor, A. - IV-188  
Taylor, D. - I-125, I-124, I-122, I-34, I-136, I-133, I-120, I-141, I-142, II-3, IV-492, IV-73  
Taylor, D.L. - IX-11  
Taylor, J.B. - IV-685  
Taylor, J.H. - III-30  
Tenkel, F.G. - IX-91  
Teraï, A. - V-45  
Terry, C.W. - I-278, IV-69  
Thomas, A.N. - IV-77  
Thomas, I.A. - I-82, IV-280, V-4, VII-122, VII-117  
Thomas, M.W. - I-72, I-77, I-93, III-7, VII-137  
Thomas, P.R. - II-21, IV-381  
Thompson, A.B. - IV-469



Thompson, G.D. - IV-343  
Thompson, M.A. - III-165  
Thompson, W.J. - I-258  
Thomson, R.B. - I-199  
Thurman, G.R. - III-112  
Tielking, J.T. - III-134, III-171, III-56, III-140, IV-334  
Tillinger, D.E. - II-9, IV-323  
Timonin, A. - VII-193  
Tiuktiaev, I. - VII-148  
Tobiasson, W.N. - I-274  
Tootle, J.N. - IV-567  
Topping, R.W. - IX-81  
Tosh, J.D. - IV-526  
Townley, G.E. - IX-36  
Transportation Research Board - III-129  
Trantham, A.W. - I-16, IV-200, VII-57  
Trautwein, W. - IV-593, IV-594  
Trindal, W.S. - IV-295  
Trivisonno, N.M. - IV-339  
Troll, W.C. - V-105  
Tsutsoev, V.I. - I-48  
Tsytoich, N.A. - VI-4  
Tucker, L.E. - V-72  
Turnage, G.W. - IV-170, IV-582, IV-553, IV-532, IV-571, IV-624, IV-620,  
IV-509, IV-285, IV-183  
Turner, D.G.W. - VIII-51

Tuttle, G.A. - IV-114  
Uffelmann, F.L. - IV-225  
Umberger, C.C. - IV-127  
University of Pittsburgh - I-287  
Unnewehr, L.E. - IX-40  
Unruh, D.H. - IX-127  
Untersteiner, N. - IV-64  
Uspenskii, I.N. - VII-72  
Usuku, Y. - I-30  
Vail, C.F. - IX-92  
Vaisberg, I.S. - I-101  
Valiakhmetov, D.G. - III-13  
Van Deusen, B.D. - IX-162, IX-131  
Van Dorn, J.W. - IX-184  
Van Loan, M. - V-76  
Vasil'ev, A.P. - I-205, I-62  
Vaughn, D.A. - IV-619  
Vaughn, O.H., Jr. - IV-721  
Vazetdinov, A. - IV-76  
Veith, A.G. - II-42  
Velinsky, S.A. - II-7, IV-318, IX-21  
Venkateshwar, B. - V-41  
Veres, R.E. - I-295  
Verzhbitskii, A.N. - I-22, VII-62  
Veschambre, Y. - IV-21

Viergutz, O.J. - II-14, IV-351  
Viktorov, V. - I-168  
Vincent, C.R. - VII-156  
Vincent, R.J. - IX-97  
Vinogradov, B.V. - VII-195  
Vladimirov, V. - I-151  
Vodyanik, I.I. - IV-349  
Volkov, A.E. - III-9  
Volkova, A.E. - IV-199  
Vologdin, V. - I-169  
Von Fumetti, C.W. - V-67  
Vorachek, J.J. - IV-337  
Vrooman, A.J. - IV-122  
Wachnik, Z.G. - VIII-57  
Wadleigh, K.H. - IX-86  
Walker, D.A. - V-21, VII-142  
Walker, G. - VII-189  
Walker, G.E. - I-269  
Wallace, F.J. - III-101, III-36, III-103  
Walston, W.H., Jr. - IV-363  
Walter, J.D. - II-28, IV-378  
Walther, W.D. - IX-148  
Wang, C.J. - VIII-36  
Ward III, H.M. - I-218, I-311  
Warner, D.R. - IV-263, VII-13

Wastenson, L. - IV-242, V-9, VII-114  
Wasynczuk, V. - IV-711  
Watson, C.G. - IX-177  
Weaver, R.J. - VIII-31  
Webb, W.A. - IV-447  
Weeks, G.E. - IX-16  
Wehner, B. - III-17  
Weidick, A. - I-84  
Weinstein, C.H. - III-217  
Weir, D.H. - IX-113, IX-38  
Weiss, S.J. - I-129, I-130, III-15, IV-248, IV-71, VI-3  
Wenzel, A.B. - IV-629  
Westphal, J.A. - VII-2  
Wheeler, C.M. - III-87  
Wheeler, P. - IV-260, VII-10, IX-58  
Wheeler, R.L. - VII-178  
Wheelock, W.K. - V-75  
White, K.E. - IX-41  
White, R.A. - II-23, IV-387, IV-383, IX-121  
Wickliffe, L.E. - IX-14  
Wiendieck, K.W. - III-161, IV-687, IV-454  
Wigotsky, V.W. - IV-100, X-6  
Wilber, G.F. - IV-716  
Williams, A. - VII-19, IX-94  
Williansom, S.O. - IX-150

Willoughby, W.E. - IV-450

Wilson, J.A. - I-167

Wilson, N.E. - VII-130, IV-91, IV-209, IV-55

Windisch, E.J. - IV-184

Winkler, C.B. - IX-89

Winsor, F.J. - IX-62

Wise, S. - IV-167

Wisner, R.D. - III-10, III-89, VII-119

Witney, B.D. - IV-488

Wolfe, M.J. - IV-584

Wolff, A. - I-152

Wollam, J.M. - IX-125

Wollam, J.M. - V-32

Wong, J. - III-24

Wong, J.Y. - III-155, IV-683, IV-298, V-99, V-84

Wong, L.T. - IX-180

Wong, R.E. - IV-115, IV-118, VII-37

Wood, L.E. - III-238

Wood, W.A. - I-216, I-312

Woods, H.K. - IV-572, IV-422

Woods, R.D. - IV-394

Wright, R.C. - IV-635

Wu, Y. - V-31, X-11

Wuebben, J.L. - VII-56

Wuori, A.F. - I-150, I-188, I-177

Yager, T.J. - I-270, III-177, III-153

Yankovsk, I.E. - III-163

Yarber, G.W. - V-34

Yoder, E.J. - IV-249

Yong, R.N. - I-27, I-211, I-44, I-26, I-11, I-25, II-29, IV-290, IV-272, IV-273, IV-235, IV-701, VII-53

Yoshida, S. - IX-42

Yoshida, Y. - IX-54

Yoshimori, K. - IX-61

Young, D.A. - IV-657

Young, H.E. - VII-5

Young, N. - IV-534

Young, R.E. - III-209

Young, T.K. - I-40

Yurko, J. - II-34

Zarotti, G.L. - V-42, V-61

Zhivotovskii, A. - VIII-53

Zhukov, V.I. - IV-51

Zillman, R.L. - III-51

Zimmerman, M.D. - IV-276

Zimmerman, R.E. - IV-131

Zlobin, G.P. - I-144, VII-184, VII-82

Zoeppritz, H.P. - I-300

Zorn, W. - IX-118

Chapter I - Snow vehicles or snowmobiles.

## CHAPTER 1

1. AU - Kurtukov, I.A.M.  
TI - Preparation of industrial transportation for winter  
OTI - O podgotovk transportnykh khoziaistv k zime  
SO - Promyshlennyi Transport, 1979, No. 8, p 2-5  
LA - Rus  
IT - transportation; motor vehicles; cold weather performance; snow roads; ice roads
2. AU - Mavlenkov, A.  
TI - Screw-driven vehicles for Siberia  
SO - U.S. Army Foreign Science and Technology Center. Translation, Aug 1979, FSTC-HT-510-79, 9 p, Translation of Tekhnika i nauka 10: 24-26, 1978. Distribution limited to U.S. Government agencies only  
LA - Eng, Rus  
IT - ice cutting; vehicles; snow vehicles
3. AU - Belinskii, A.I.U.  
TI - Passenger transport in northern population resettlement systems  
OTI - Passazhirskii transport v sistemakh rasseleniia Severa  
SO - Problemy Severa, 1979, Vol. 20, p. 98-105  
LA - Rus  
IT - transportation; airplanes; air cushion vehicles; motor vehicles; all-terrain vehicles; swamps; ice navigation; snow roads; ice roads
4. AU - Khlebnikov, A.M.; Krestovnikov, G.A.  
TI - Peculiarities of motor transport under northern conditions  
OTI - Osobennosti ispol'zovaniia avtotransportnykh sredstv v usloviakh Severa  
SO - Problemy Severa, 1979, Vol. 20, p 47-59  
LA - Rus  
IT - analysis-mathematics; motor vehicles; roads; permafrost beneath roads; trafficability; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; swamps; all-terrain vehicles
5. TI - Finnish motorized sled  
SO - U.S. Army Foreign Science and Technology Center. Technical translation, Apr 1979, FSTC-HT-954-79, 2 p, Distribution limited to U.S. Government agencies only. Translation of Nauk i tekhnika (Finland), No. 3:3, 1979.  
LA - Eng, Rus  
IT - sleds; snow vehicles
6. AU - Sboev, V.V.  
TI - Influence of snow deformation on the traffic of low-powered amphibian airsleighs



- SO - Data of glaciological studies. Translated from Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovani. Khronika obsuzhdeniia, Vol. 21, 1973, p 429-433, U.S. National Science Foundation, 1974  
LA - Eng, Rus  
IT - snow deformation; snow vehicles
7. AU - Irwin, G.J.  
TI - Snow classification in support of off-road vehicle technology  
SO - Canada. Defence Research Establishment, Ottawa, DREO report, DREO-801, Feb 1979, 29 p  
LA - Eng  
IT - permafrost; cold weather tests; snow structure; metamorphism-snow; classifications; penetrometers; snow vehicles
8. AU - Brown, R.L.  
TI - Volumetric constitutive law for snow subjected to large strains and strain rates  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 79-20, Aug 1979, 13 p  
LA - Eng  
IT - snow deformation; snow compression; volume; strains; strain tests; dynamic loads; tracked vehicles
9. AU - Boyles, J.M.; Schmutzler, R.A.; Rowley, P.D.  
TI - Snowmobiles in Antarctica  
SO - Arctic, Sep 1979, 32(3), p 189-200  
LA - Eng  
IT - transportation-oversnow; vehicles-toboggans; snow vehicles
10. AU - Nurmiev, G.N.  
TI - Conference in Tyumen'  
OTI - Konferentsiia v Tiiumeni  
SO - Promyshlennyi transport, Jan 1979, No. 1, p 26  
LA - Rus  
IT - snow cover; meetings; ice navigation; transportation; vehicles; trafficability
11. AU - Yong, R.N.; Harrison, W.L.  
TI - On vehicle mobility in snow-covered terrain. Vol 1. Problem development and requirements for analysis  
SO - Journal of Terramechanics, 15(4), Dec 1978, p 223-235  
LA - Eng  
IT - snow density; dynamic loads; snow cover effect; trafficability; snow cover structure; heat transfer; solar radiation; vehicles; interfaces
12. AU - Katunskii, A.M.  
TI - Driving tanks  
OTI - Vozhdenie tankov  
SO - Moscow, Voenizdat, 1976, 174 p, (Pertinent, p 56-80, 159)

- LA - Rus  
IT - military equipment; tanks-combat vehicles; cold weather operation; snow removal equipment
13. AU - Baiano, G.  
TI - Dobbiaco 78: operational and technological development  
OTI - Dobbiaco 78: evoluzioni operative e tecnologiche  
SO - Neve International, 20(2), Apr 1978, p 32-34  
LA - Ita  
IT - snow removal equipment; snow vehicles; trafficability
14. AU - Landi, G.  
TI - Tracked snow vehicles, their possible use in construction and in the operation of cable transportation systems  
OTI - Veicoli cingolati da neve: possibilita di utilizzo nella costruzione e nell'esercizio degli impianti a fune  
SO - Neve International, 20(3), Sep 1978, p 19-21  
LA - Ita  
IT - tracked vehicles; snow vehicles; cold weather construction; cable railways
15. AU - Kihlgren, B.  
TI - Rolling resistance of aircraft wheels in dry snow  
SO - National Swedish Road and Traffic Research Institute. Report, 1977-VTI-128, 36 p, In Swedish with English summary  
LA - Swe, Eng  
IT - airplanes; vehicles wheels; friction; snow cover effect
16. AU - Trantham, A.W.; Womble, C.C.; Williamson, R.  
TI - Detailed combined limited technical/user test of Small Unit Support Vehicle (SUSV) BV20t  
SO - Distribution limited to U.S. Government agencies only. Aberdeen Proving Ground, MD, U.S. Army Test and Evaluation Command, 1978, 123 p  
LA - Eng  
IT - all-terrain vehicles; tracked vehicles; military operation; snow vehicles; cold weather tests
17. AU - Dibbern, J.S.  
TI - Oversnow and adverse-terrain vehicles - Foreign  
OS - U.S. Army Materiel Development and Readiness Command, Foreign Science and Technology Center  
SO - Defence Intelligence Agency, DIA Task PT-1120-03-75, Jan 1979, 159 p  
LA - Eng  
IT - military transportation; arctic terrain; design criteria; snow vehicles; tracked vehicles; trucks; cold weather operation
18. AU - Ringer, T.R.  
TI - Snow deposits on simulated A.C.V. track sections, 1970-1971

- SO - National Research Council, Canada, Division of Mechanical Engineering. Laboratory memorandum, Sep 1971-LT-153  
 LA - Eng  
 IT - air cushion vehicles; snow accumulation; railroad tracks; snow removal
19. TI - Snow transport equipment model 1000 towed snowplow carrier  
 OS - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory  
 SO - CEL techdata sheet, Nov 1974-74-10, 1 p  
 LA - Eng  
 IT - construction-road; snow-construction; vehicles; skis; snow roads; construction equipment
20. TI - 4-by-4 cargo/passenger van with high flotation tires  
 OS - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory  
 SO - CEL techdata sheet, Mar 1973, 73-5, 2 p  
 LA - eng  
 IT - vehicles
21. AU - Karlstrom, L.  
 TI - Tracked vehicle "Bandvagn 206" driving test and force testing in bare and snow-covered mountain terrain  
 SO - U.S. Army Foreign Science and Technology center. Translation, Nov 3, 1977-FSTC 734-77, 60 p, Translation of Forsvaretsmaterielverk, Huvudavdelningen for Hjulfordonsbyran. Research report dated 18 May 1976. Distribution limited to U.S. Government agencies only  
 LA - Eng, Swe  
 IT - mountains; snow cover; tracked vehicles; cold weather tests
22. AU - Verzhbitskii, A.N.; Krestovnikov, G.A.  
 TI - Evaluating fuel consumption by all-terrain vehicles  
 OTI - Otsenka toplivnoi ekonomichnosti snegobolotokhodov  
 SO - Avtomobil'naia promyshlennost', Oct 1977, No. 10, p 8-10  
 LA - Rus  
 IT - swamps; snow cover; motor vehicles; all-terrain vehicles
23. AU - Harrison, W.L.  
 Ti - Shallow snow performance of wheeled vehicles  
 SO - International Conference of the International Society for Terrain-Vehicle Systems, 5th, Detroit, MI, June 206, 1975. Proceedings. Vol. 2, Report Number MP 1130, p 589-614, Hoboken, NJ, 1976  
 LA - Eng  
 IT - snow compaction; analysis-mathematics; vehicles; snow compression; traction; loads-forces; snow mechanics; rubber-snow friction

24. TI - Requirement for identification and characterization of snow for mobility purposes  
OS - International Society for Terrain-Vehicle Systems, Committee on Snow Mechanics Research Coordination  
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40, Prepared for the Sixth International Conference of the I.S.T.V.S., Vienna, Aug 1978  
LA - Eng  
IT - all-terrain vehicles; snow strength; trafficability; classifications; snow mechanics; snow vehicles
25. Au - Yong, R.N.; Harrison, W.L.  
TI - Snow trafficability - the knowledge gap  
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40, Prepared for the Canadian Society for Terrain-Vehicle Systems Symposium "Econo-Mobility", Toronto, March 30-31, 1978  
LA - Eng  
IT - snow vehicles; snow strength; trafficability; snow mechanics
26. AU - Yong, R.N.; Fukue, M.  
TI - Snow mechanics: machine-snow interaction  
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40, Prepared for the Second International Symposium on Snow Removal and Ice Control Research, Hanover, NH, May 15-19, 1978  
LA - Eng  
IT - pressure; shear properties; snow mechanics; snow strength; shear stress; snow vehicles
27. AU - Yong, R.N.  
TI - Recent studies in snow mechanics and trafficability  
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40  
LA - Eng  
IT - snow mechanics; trafficability; snow surveys; snow strength; snow vehicles
28. AU - Hosoya, M.  
TI - Record of snow vehicle KD 605 used for the JARE South Pole Traverse in 1968-1969  
SO - Antarctic Re. (Tokoyo), Aug 1970, No. 38, p 46-64, In Japanese with English summary  
LA - Jap, Eng  
IT - vehicles-tractors; expeditions-Japanese Antarctic Research Expedition
29. AU - Beard, W.H.; Moser, E.H.; Stehle, N.S.  
TI - Vehicle road systems on snow and ice

- SO - In: Antarctic Treaty Meeting of Experts on Logistics, Tokyo, 1968, Records. Tokyo, Ministry of Education, 1968, p 400-417  
 LA - Eng  
 IT - construction-equipment; construction-road; transportation-oversnow; vehicles; McMurdo Station
30. AU - Usuku, Y.; Hosoya, M.  
 TI - Design of snow car for Japanese Antarctic Research Expedition  
 OTI - Nankyoku kansoku yo setsujo-sha (KD 60) no kihon sekkei ni tsuite  
 SO - Text in Japanese with English summary. Antarctic Rec. (Tokyo), No. 24:1-13, March 1965  
 LA - Jap  
 IT - vehicles-tractors
31. AU - Maita, S.  
 TI - Dieselization of the snow car and the electric generator for the Japanese Antarctic Research Expedition  
 SO - In; Symposium on Antarctic Logistics, 1962, National Academy of Science, National Research Council, p 450-466, 1963  
 LA - Eng  
 IT - engines-diesel; power-electric; vehicles
32. AU - Smith, F.A.  
 TI - Snow-trac, a useful scout vehicle  
 SO - In: Symposium on Antarctic Logistics, 1962, National Academy Science, National Research Council, p 388-394, 1963  
 LA - Eng
33. AU - Crary, A.P.; Robinson, E.S.  
 TI - Oversnow traverse from McMurdo to the South Pole  
 OS - Wisconsin, University  
 SO - Science, vol. 135(3500), Jan 26, 1962, p 291-295  
 LA - Eng  
 IT - glacier ice-seismic exploration; glacier ice-thickness snow-accumulation; altimetry; expeditions-McMurdo-South Pole Traverse-1960-1961; vehicles; Amundsen - Scott Station
34. AU - Taylor, D.  
 TI - Maintenance information for the LGP Caterpillar D4 Series D snow tractor  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Oct 1965-N-778, 6 p  
 LA - Eng  
 IT - vehicles-tractors
35. AU - Hosoya, M.; Tsuchiya, K.; Yamamoto, R.  
 TI - Report on the operation of mechanical transport for the JARE South Pole Traverse 1968-69  
 SO - Japanese Antarctic Research Expedition, Scientific reports, March 1971, special issue No. 2, p 204-261

- LA - Eng  
 IT - expeditions-Jare South Pole Traverse 1968-1969; cargo operations-oversnow; fuel; low temperature effects-on equipment; sleds; transportation-oversnow; traverse operations; vehicles
36. AU - Butyrin, M.  
 TI - Maintenance of automotive equipment in freezing weather  
 OTI - Sberezhenie avtotraktornoj tekhniki zimoi  
 SO - Vestnik protivovozdushnoi oborony, Jan 1978, No. 1, p 73-77  
 LA - Rus  
 IT - cold weather operation; cold weather maintenance; airports, military transportation; de-icing; motor vehicles; snow removal equipment; logistics
37. AU - Kuroda, M.  
 TI - Resistance of snow to a sledge (second report)  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory (SIPRE), Report Number SIPRE TL 36, Feb 1955, 5 p  
 LA - Eng, Jap  
 IT - snow vehicles; snow physics; snow strength; wood-snow friction; rubber-snow friction
38. AU - Dibbern, J.S.  
 TI - Soviet and Japanese oversnow vehicles  
 SO - Journal of Terramechanics, vol. 14, no. 4, Dec 1977, p 227-236  
 LA - Eng  
 IT - snow vehicles
39. AU - Smith, T.G.  
 TI - Travelling the Arctic by snowmobile  
 SO - Canadian Geographical Journal, vol. 96, no. 2, Feb/Mar 1978, p 60-65  
 LA - Eng  
 IT - research projects; snow vehicles; ice navigation; traverses
40. AU - Young, T.K.  
 TI - Use of articulated wheel loaders in snow removal  
 SO - Highway Research Record, 1971, No. 359, p 50-53  
 LA - Eng  
 IT - snow removal equipment; vehicle wheels
41. TI - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976  
 SO - Canadian Society for Terrain Vehicle Systems  
 LA - Eng  
 IT - all-terrain vehicles; vehicle wheels; tracked vehicles; snow road
42. TI - Industrial Vehicles Corporation's "Bolzano Series" features integral traction, high maneuverability

- OTI - La "Gamma Bolzano" dell'Iveco: veicoli a trazione integrale ad elevata manovrabilita  
 SO - Strade e traffico, Nov-Dec 1977, No. 262, p 4-7  
 LA - Ita  
 IT - winter maintenance; road maintenance; snow removal equipment;  
 - terrain vehicles
43. AU - Abele, G.; Liston, R.A.  
 TI - Air cushion vehicle ground contact directional control devices  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 76-45, Dec 1976, 15 p  
 LA - Eng  
 IT - air cushion vehicles
44. Au - Yong, R.N.; Fukue, M.  
 TI - Performance of snow in confined compression  
 SO - Journal of Terramechanics, vol. 14, no. 2, June 1977, p 59-82  
 LA - Eng  
 IT - snow compression; snow cover structure; snow density; snow deformation; mechanical tests; vehicles
45. AU - Malygin, V.A.  
 TI - Effect of form and size in indentations in compactor discs on snow cover penetration  
 OTI - Vliianie formy i razmerov vyrezov v shtampakh na ikh pogruxhaemost' v snezhnyi pokrov  
 SO - Gorkii. Politekhnikheskii Institut. Trudy, vol. 25, no. 9, 1969, p 101-103  
 LA - Rus  
 IT - snow mechanics; snow compaction; tracked vehicles
46. AU - Rukavishnikov, S.V.; Panov, V.I.; Maslennikov, V.A.  
 TI - Studies of the effect of the location of the center of gravity of snow vehicles on inertia over virgin snow surfaces  
 OTI - Issledovanie vliianiia polozheniia tsentra tiazhesti snegokhodnykh mashin n soprotivlenie dvizheniiu po snezhnoi tseline  
 SO - Gorkii. Politekhnikheskii Institut. Trudy, vol. 25, no. 9, 1969, p 40-45  
 LA - Rus  
 IT - tracked vehicles; loads-forces; trafficability
47. AU - Panov, V.I.  
 TI - Problems in studying the movement of sled-trailers  
 OTI - Nekotorye problemy issledovaniia dvizheniia sannykh pritsepov  
 SO - Gorkii. Politekhnikheskii Insitut. Trudy, vol. 25, no. 9, 1969, p 23-30  
 LA - Rus  
 IT - vehicles; snow-density; snow-physical properties; sleds; tracked vehicles

48. AU - Tsutsoev, V.I.  
TI - Winter operation of tractors and automobiles  
OTI - Zimniaia ekspluatatsiia traktorov i avtomobilei  
SO - Moskovskii Rabochii, 1977, 103 p  
LA - Rus  
IT - cold weather performance; winter maintenance; motor vehicles; tractors; snow removal; snowdrifts
49. AU - Mikhailov, I.U.B.  
TI - Using studded tires on cars  
OTI - O primenenii avtomobil'nykh shin s shipami protivoskol'zheniia  
SO - Moscow. Avtomobil'no-dorozhnyi Institut. Trudy, 1974, Vol. 84, p 6-7  
LA - Rus  
IT - road icing, winter maintenance; motor vehicles; tires; rubber-ice friction; rubber-snow friction
50. AU - Hanamoto, B.  
TI - Effect of snow cover on obstacle performance of vehicles  
SO - Journal of Terramechanics, Report Number MP 933, vol. 13, no. 3, Oct 1976, p 121-140  
LA - Eng  
IT - tracked vehicles; snow cover effect; cold weather performance; topographic features; trafficability; snow vehicles
51. AU - Lysenko, L.Kh.; Iuvenal'ev, I.N.  
TI - Operation of snowmobiles  
OTI - Ekspluatatsiia aerosanei  
SO - Moscow, Transport, 1976, 128 p  
LA - Rus  
IT - maintenance; cost analysis; snow vehicles; sleds
52. AU - Berezhnov, N.G.  
TI - Using motor vehicle parks in winter in West Siberia  
OTI - Osnovy ekspluatatsii mashinno-traktornogo parka v zimnikh usloviakh Zapadnoi Sibiri  
SO - Barnaul, 1975, 340 p  
LA - Rus  
IT - winter maintenance; motor vehicles; rubber-snow friction; rubber-ice friction; road icing; fuels; lubricants; engine starters
53. AU - Berezhnov, N.G.; Elizar'ev, V.G.  
TI - Using motor vehicle parks in freezing weather  
OTI - Ispol'zovanie mashinno-traktornogo parka v zimnikh usloviakh  
SO - Altaiskoe knizh. Izd-vo, 1975, 87 p  
LA - Rus  
IT - winter maintenance; motor vehicles; rubber-ice friction; rubber-snow friction; ice crossings; road icing



54. AU - Abele, G.  
TI - Hovercraft ground contact directional control devices  
SO - International Hovering Craft, Hydrofoil and Advanced Transit Systems Conference, 2nd, Amsterdam, May 17-20, 1976. Proceedings. Report Number MP 875, p 51-59, London, Kalerghic Publications, 1976  
LA - Eng  
IT - tundra terrain; impact; all-terrain vehicles; air cushion vehicles; vehicle wheels
55. AU - Abele, G.; Parrott, W.H.  
TI - Some effects of air cushion vehicle operations on deep snow  
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, p 214-241, Stockholm, Sweden, 1972  
LA - Eng  
IT - surface properties; tests; air cushion vehicles; snow depth; erosion
56. AU - Silvennoinen, U.; Haarlaa, R.  
TI - Aspects on the mobility of logging tractors on snow  
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, p 205-213, Stockholm, Sweden, 1972  
LA - Eng  
IT - tests; tracked vehicles; snow strength; snow cover stability; trafficability; tractors
57. AU - Parrott, W.H.; Ueda, H.T.; Abele, G.  
TI - Portable instrument for determining snow characteristics related to trafficability  
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, Report Number MP 886, p 193-204, Stockholm, Sweden, 1972  
LA - Eng  
IT - shear properties; snow strength; snow cover stability; measuring instruments; trafficability
58. TI - Proceedings. Vol. 2. International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972  
SO - Stockholm, Sweden, 1972, 258 p  
LA - Eng  
IT - snow depth; snow strength; tests; air cushion vehicles; trafficability; all-terrain vehicles
59. AU - Ivanov, E.; Iamkovi, E.  
TI - Resucing bogged down tanks  
OTI - Vytaskivanie zastrivavshikh tankov  
SO - Tekhnika i vooruzhenie, Mar 1976, No. 3, p 26-28  
LA - Rus

- IT - frozen ground; snow roads; military transportation; ice roads; motor vehicles; tanks-combat vehicles; rescue operations; swamps
60. AU - Harwood, T.A.  
 TI - Some considerations for off-road vehicles in northern conditions  
 SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, p 197-219, Ottawa, Canada, 1971  
 LA - Eng  
 IT - all-terrain vehicles; climatic factors; snow cover structure; muskeg; tracked vehicles
61. AU - Denison, J.B.  
 TI - Off-road trucking winter operation  
 SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, p 181-188, Ottawa, Canada, 1971  
 LA - Eng  
 IT - snow roads; roads; construction; cargo; vehicles
62. AU - Vasil'ev, A.P.  
 TI - State of roads and safety of motor vehicle traffic under difficult weather conditions  
 OTI - Sostoianie dorog i bezopasnost' dvizheniia avtomobilei v slozhnykh pogodnykh usloviakh  
 SO - Moscow, Transport, 1976, 224 p  
 IT - wind factors; glaze; roads; road icing; snowdrifts; snow accumulation; rubber-ice friction; rubber-snow friction; cohesion
63. AU - Harrison, R.T.  
 TI - ORV's: environmental effects  
 SO - Arctic Soils Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, p 256-267, Anchorage, Alaska, Bureau of Land Management, Aug 1976  
 LA - Eng  
 IT - snow vehicles; pollution; damage; all-terrain vehicles
64. AU - Sexton, M.L.  
 TI - Vehicles and roads for petroleum exploration  
 SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, p 80-81, Anchorage, Alaska, Bureau of Land Management, Aug 1976  
 LA - Eng  
 IT - snow roads; arctic terrain; all-terrain vehicles; petroleum transportation
65. AU - Hosoya, M.  
 TI - New oversnow vehicle KC40  
 OTI - Atarshii setsujosha KC40  
 SO - Polar News (Kyokuchi), July 1976, No. 23, p 50-52  
 LA - Jap  
 IT - transportation-oversnow; vehicles; snow vehicles

66. AU - Lehfeld, K.H.; Bartz, H.; Matz, J.P.; Neumann, H.; Schmidt, H.; Wohrn, K.  
TI - Winter road service  
OTI - Strassenwinterdienst  
SO - Berlin, VEB Verlag fur Verkehrswesen, 1975, 223 p  
LA - Ger  
IT - snowsheds; salting; wind factors; winter maintenance; snow removal; ice prevention; snow removal equipment; snow fences; snow vehicles; road maintenance
67. AU - Hanamoto, B.  
TI - Effects of variation in drawbar hitch location on vehicle performance  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 237, Sep 1975, 16 p  
LA - Eng  
IT - all-terrain vehicles; snow cover effects; noncohesive soils
68. TI - All-terrain vehicles symposium  
SO - Oilweek, July 12, vol. 27, no. 22, 1976, p 10-11  
LA - Eng  
IT - meeting; air cushion vehicles; snow roads
69. AU - Aslanov, G.A.  
TI - Organization on subglacial fishing using snow vehicles  
OTI - Organizatsiia podlednogo lova s ispol'zovaniem snegokhodov  
SO - Rybnoe khoziaistvo, Feb 1976, No. 2, p 53-54  
LA - Rus  
IT - trafficability; icebound rivers; all-terrain vehicles; tracked vehicles; snow depth; snow vehicles; ice drills
70. AU - Riabov, V.P.; Shubin, M.A.; Erastov, A.I.A.  
TI - Access roads built along railroad tracks  
OTI - Pritrassovye i pod'exdnye avtomobil'nye dorogi  
SO - Moscow, Transport, 1975, 101 p  
LA - Rus  
IT - railroad tracks; roads; motor vehicles; roadbeds; permafrost beneath roads; taiga terrain; mountains; snow roads; ice roads
71. AU - Afanas'ev, V.A.  
TI - Winter maintenance of side roads for military vehicles  
OTI - Soderzhanie avtomobil'nykh pod'exdov zimoi  
SO - Tyl i snabzheni Sovetskikh vooruzhenneykh sil, Nov 1975, No. 11, p 75-78  
LA - Rus  
IT - winter maintenance; military transportation; motor vehicles; roads; snow removal equipment; de-icing
72. AU - Thomas, M.W.  
TI - Ground transportation for polar operations - 16-wheel Low-Ground Pressure Vehicle (LGPV-16)

- SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA,  
Civil Engineering Laboratory. Technical note, Jan 1976-N-1422, 29  
p  
LA - Eng  
IT - vehicles; transportation-oversnow; Antarctica - McMurdo  
Station; snow vehicles; cold weather tests; tires; design criteria
73. AU - Barthelemy, J.L.  
TI - Snow-road construction - a summary of technology from past to  
present  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA,  
Technical Report, Dec 1975-R0831, 31 p  
LA - Eng  
IT - construction-road; construction-equipment; snow roads;  
construction equipment
74. AU - Klimenko, A.I.  
TI - Land transportation of the future  
OTI - Nazemnyi transport budushchego  
SO - Moskovskii rabochii, 1975, 120 p  
LA - Rus  
IT - all-terrain vehicles; air cushion vehicles; snow vehicles
75. AU - Kjellin, P.  
TI - Effects of snowmobiles and other off-road vehicles on  
vegetation  
OTI - Snoskoterns och andra terrangmotorfordons inverkan pa  
vegetationen  
SO - Motortrafik i terrang-forskningsrapporter om miljöeffekter, p  
115-169, in Swedish with English summary and captions. Solna,  
Sweden, Statens naturvardsverk, 1975  
LA - Swe, Eng  
IT - all-terrain vehicles; vegetation patterns; damage; snow cover  
effect
76. AU - Karaban, G.L.; Balovnev, V.I.; Zasov, I.A.  
TI - Equipment for maintenance and repair of roads and airports  
(structures and basic design)  
OTI - Mashiny dlia soderzhaniia i remonta avtomobil'nykh dorog i  
aerodromov (konstruktsiia i osnovy rascheta)  
SO - Moscow, Mashinostroenie, 1975, 367 p  
LA - Rus  
IT - roads; motor vehicles; design; airports; winter maintenance;  
snow removal equipment; road icing; de-icers; mechanical ice  
prevention; chemical ice prevention
77. AU - Thomas, M.W.  
TI - Polar transportation equipment - five-ton truck with high  
flotation tires  
SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA,  
Civil Engineering Laboratory, Technical Note, Nov 1975-N-1405, 14 p

- LA - Eng  
IT - vehicles-trucks; transportation-oversnow; Antarctica-McMurdo Station; snow vehicles; cold weather tests
78. Deleted.
79. AU - Harrison, W.L.; Knight, S.J.; Liston, R.A.  
TI - Vehicle performance over snow; math-model validation study  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 268, Dec 1975, 84 p, Includes as Appendix C, USAEWES methodology for predicting vehicle performance in subarctic snows by S.J. Knight, and, as Appendix D, Land Locomotion Laboratory method of prediction of shallow and deep snow vehicle performance by R.A. Liston  
LA - Eng  
IT - vehicles; snow mechanics; snow depth; mathematical models; tracked vehicles; vehicle wheels
80. AU - Akkerman, G.L.; Sadov, V.V.; Sadovskaia, N.N.  
TI - Effectiveness of flooded roads at the Sovetsko-Sosninskoe oil field  
OTI - Effektivnost' zatopliaemykh avtomobil'nykh dorog na Sovetsko-Sosninskom mestorozhdenii nefi  
SO - Zheleznodorozhnyi put' i transportnoe stroitel'stvo (Materialy XV nauchno-tekhnicheskoi konferentsii) (Railroad tracks and transportation engineering. Proceedings of the 15th Scientific and Technological Conference), p 42-44, Sverdlovsk, Ural'skii elektromekhanicheskii institut inzhenerov zheleznodorozhnogo transporta, 1972  
LA - Rus  
IT - snow roads; ice roads; construction costs; roads; floods
81. AU - Hanamoto, B.  
TI - Traction aid for wheeled vehicles  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 232, July 1975, 9 p  
LA - Eng  
IT - vehicle wheels; tracked vehicles; trafficability
82. AU - Thomas, I.A.  
TI - Northern off-road transportation in the 70's  
SO - American Society of Civil Engineers, Construction Division. Journal, vol. 101, no. 3, Sept 1975, p 635-646  
LA - Eng  
IT - design; all-terrain vehicles; tracked vehicles; snow vehicles
83. TI - Snowmobile-seaplane  
OTI - Aerosani-glisser  
SO - Nauka i zhizn', Sept 1974, No. 9, p 75  
LA - Rus  
IT - motor vehicles; snow vehicles; airplanes

84. AU - Weidick, A.  
TI - Final destination of "Schneespätz" and "Eisbar" - the propeller sledge of Wegener's last Greenland expedition  
SO - Polarforschung, vol. 44, no. 1, 1944, p 89-91, with German summary  
LA - Eng, Ger  
IT - snow vehicles; sleds; propellers; transportation
85. TI - 1-ton truck cargo pickup with high flotation tires  
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA  
SO - NCEL techdata sheet, April 1973, No. 73-15, 2 p  
LA - Eng  
IT - vehicles-trucks; motor vehicles; tires
86. TI - D4 low ground pressure snow tractor  
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA  
SO - NCEL techdata sheet, April 1973, No. 73-14, 2 p  
LA - Eng  
IT - vehicles-tractors; tractors
87. TI - Snow trails for light, wheeled vehicles  
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA  
SO - NCEL techdata sheet, March 1973, No. 73-7, 2 p  
LA - Eng  
IT - construction-road; vehicles-trucks; snow-construction; snow roads; motor vehicles
88. TI - Tracked 4-passenger personnel/cargo carrier  
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA  
SO - NCEL techdata sheet, March 1973, No. 73-4, 1 p  
LA - Eng  
IT - vehicles-weasels; transportation-oversnow; tracked vehicles; snow vehicles
89. TI - Tracked 10-passenger personnel/cargo carrier  
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA  
SO - NCEL techdata sheet, March 1973, No. 73-3, 2 p  
LA - Eng  
IT - vehicles-weasels; transportation-oversnow; tracked vehicles; snow vehicles
90. AU - Mikhailovskii, A.  
TI - Winter maintenance of military roads  
OTI - Soderzhanie voenno-avtomobil'nykh dorog zimoi  
SO - Tyl i snabzhenie sovetskikh vooruzhennykh sil, Jan 1974, No. 1, p 73-78  
LA - Rus  
IT - military equipment; motor vehicles; military transportation; roads; winter maintenance; snow removal equipment
91. AU - Hosoya, M.  
TI - Ability of KD-60 snow car and its problems

- SO - Polar News, vol. 55, no. 1, July 1969, p 7-12  
 LA - Jap  
 IT - vehicles-tractors; transportation-oversnow; sleds; snow vehicles; tracked vehicles; design criteria; cold weather operation; sleds
92. AU - Murayama, M.  
 TI - South Pole Traverse by the 9th JARE  
 SO - Polar News, vol. 5, no. 1, July 1969, p 2-6  
 LA - Jap  
 IT - expeditions-JARE South Pole Traverse; research programs-Japan; transportation-oversnow; traverse operations; vehicles-tractors; snow vehicles; tracked vehicles; design criteria; cold weather operation
93. AU - Thomas, M.W.; Vaudry, K.D.  
 TI - Snow road construction technique by layered compaction of snowblower processed snow  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Aug 1973-N-11305, 12 p  
 LA - Eng  
 IT - construction-road; vehicles-trucks; construction-equipment; snow-compaction; snow-construction; snow roads; snow compaction; construction equipment; motor vehicles; snow-construction material
94. AU - Krivoshein, M.  
 TI - DE-7 runway maintenance vehicle  
 SO - U.S. Army Foreign Science and Technology Center. Technical translation, July 1973, FSTC-HT-23-0963-73, 5 p  
 LA - Eng, Rus  
 IT - snow removal equipment; vehicles
95. AU - Bamford, M.A.T.  
 TI - Tracked vehicle design for Arctic applications  
 SO - Engineering Journal, vol. 5, no. 7-8, July/Aug 1973, p 31-34  
 LA - Eng  
 IT - arctic soil; design criteria; materials; all-terrain vehicles; tracked vehicles; snow vehicles
96. AU - Nadrshin, T.K.  
 TI - Progress of tracked vehicles on undisturbed snow and winter roads  
 OTI - Dvizhenie gusenichnykh traktorov po snezhnoi tseline i zimnim dorogam  
 SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziasistva, 1973, No. 1, p 25-27  
 LA - Rus  
 IT - snow roads; ice roads; metal-snow friction; tracked vehicles; cold weather performance

97. AU - Pozdeev, E.A.  
TI - Increase in the adhesion-traction properties of tractors in winter  
OTI - Povyshenie tiagovo-stsepynykh kachestv traktorov pri rabote zimoi  
SO - Lesnaia promyshlennost', Oct 1972, No. 10, p 28-29  
LA - Rus  
IT - tractors; cold weather performance; tracked vehicles; metal-snow friction
98. TI - Snow-plow with a pneumatic hoist attached to a motor vehicle MD-54-4  
OTI - Ustanovka na motovoze MD-54-4 snegoochistitel'ia s pnevmaticheskim pod'emnikom  
SO - Biulleten' tekhniko-ekonomicheskoi informatsii, No. 5, May 1973, p 37  
LA - Rus  
IT - snow removal equipment
99. AU - Ringer, T.R.; Price, R.D.  
TI - Snow accumulations on air cushion vehicle track sections  
SO - National Research Council, Canada. Mechanical engineering report, Oct 1972, DME-MD-52, 44 p  
LA - Eng  
IT - air cushion vehicles; snow vehicles; snow accumulation; snow roads; wind factors
100. AU - Rula, A.A.  
TI - Trafficability of snow, Greenland studies, 1955 and 1957  
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS. Technical memorandum, May 1960, AEWES-TM-3-414-3, 196 p  
LA - Eng  
IT - performance; snow cover structure; snow physics; Greenland; snow roads; snow strength; tracked vehicles; snow vehicles; trafficability
101. AU - Vaisberg, I.S.  
TI - Snow compaction in construction of snow roads for motor vehicles  
SO - U.S. Army Foreign Science and Technology Center. Technical translation, Jan 3, 1973, FSTC-HT-23-2326-73, 5 p  
LA - Eng, Rus  
IT - snow roads; snow-construction material; snow compaction
102. TI - Preliminary report of the oversnow traverse of the 10th Japanese Antarctic Research Expedition in 1969-1970  
SO - Antarctic Record, No. 39, Jan 1971, p 39-45  
LA - Eng  
IT - glacier ice; research programs-Japan; Antarctica - Queen Fabiola Mountains; ice sheets; ice surface; snow surveys



103. AU - IAnkin, V.M.  
TI - Resistance to forward movement of a track-laying tractor of the 3-ton class on snow-covered virgin soil  
SO - U.S. Army Tank Automotive Command, Foreign Technology Office. Translation, Jan 15, 1969-FIO 933, 6 p, Translated from unidentified Russian source  
LA - Eng, Rus  
IT - tracked vehicles; snow strength; trafficability
104. AU - Hanamoto, B.  
TI - Effect of snow cover on obstacle-crossing performance of vehicles  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 239, Nov 1972, 29 p  
LA - Eng  
IT - topographic features; tracked vehicles; snow cover effect; cold weather performance; snow vehicles
105. AU - Ageikin, IA.S.  
TI - Wheels and combined propulsion gear for all-terrain vehicles (theory and design)  
OTI - Vezdekhodnye kolesnye i kombinirovannye dvizhiteli (teoriia i raschet  
SO - Moscow, Mashinostroenie, 1972, 184 p  
LA - Rus  
IT - vehicle wheels; all-terrain vehicles; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; soil trafficability
106. AU - Korsak, V.K.  
TI - Selecting motor and all-terrain vehicles for operation in the North  
OTI - O vybore sredstv avtomobil'nogo i bezdorozhnogo transporta dlia raboty na Sever  
SO - Problemy Severa, 1972, Vol. 17, p 101-108  
LA - Rus  
IT - cold weather performance; cold weather operation; tracked vehicles; motor vehicles; all-terrain vehicles; tires; rubber-snow friction.
107. AU - Abel', E.B.  
TI - Increasing the ability of motor vehicles to travel under arctic conditions  
OTI - Povyshenie prokhodimosti avtomobilei v usloviakh Arktiki  
SO - Problemy Severa, 1972, Vol. 16, p 238-243  
LA - Rus  
IT - tundra terrain; snow surface; ice surface; trafficability; motor vehicles; all-terrain vehicles
108. AU - Freitag, D.R.; Janosi, Z.J.  
TI - Tracks versus wheels in soft soil and snow  
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS. Miscellaneous paper, May 1964, AEWES-Misc-Paper 651, 57 p

- LA - Eng  
IT - tracked vehicles; vehicle wheels; trafficability
109. Au - Benson, C.S.  
TI - Physical properties of the snow cover in the Ft. Greely area, Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report number SR 178, Aug 1972, 24 p  
LA - Eng  
IT - United States - Alaska - Fort Greely; snow cover structure; snow physics; meteorological factors
110. AU - Shestakov, I.  
TI - Across snow-covered mountain passes  
OTI - Cherez zasnezhennye perevaly  
SO - Tyl i snabzhenie sovetskikh vooruzhennykh sil, Feb 1972, No. 2, p 72-75  
LA - Rus  
IT - military transportation; logistics; motor vehicles; cold weather performance; engine starters; lubricants; winter maintenance
111. TI - Snow road construction and maintenance manual  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, 1972, 17 p  
LA - Eng  
IT - construction-road; construction-equipment; snow-construction; snow-construction material; snow roads; construction equipment; manuals; cold weather construction
112. AU - Ager, B.H.  
TI - Compacted snow as a transport substratum  
SO - National Research Council, Canada. Technical translation, 1960-TT-865, 113 p, Translation of Norrlands Skogvardsforbunds Tidskrift, (3), p 293-388, 1956  
LA - Eng, Swe  
IT - tracked vehicles; snow-construction material; snow density; temperature effects; snow bearing strength; snow roads; snow compaction; bearing tests
113. AU - Scheurich, P.R., Jr.; Kidd, M.A.  
TI - Results of preliminary parametric design analysis of an arctic surface effect vehicle  
SO - Canadian Aeronautics and Space Journal, vol. 18, no. 5, May 1972, p 129-134  
LA - Eng  
IT - air cushion vehicles; design criteria; ice cover effect; snow cover effect
114. AU - Beskin, I.A.  
TI - Off-the-road transportation vehicles  
OTI - Transport dlia bezdorozh'ia

- SO - Moscow, Znanie, 1971 48 p  
 LA - Rus  
 IT - snow cover effect; motor vehicles; all-terrain vehicles;  
 tracked vehicles; air cushion vehicles; soil trafficability
115. AU - IUvenal'ev, I.N.  
 TI - Snowmobiles and air-screw sleds  
 OTI - Motornye narty i aerosani  
 SO - Moscow, Znanie, 1972 48 p  
 LA - Rus  
 IT - snow cover effect; snow vehicles; motor vehicles; sleds;  
 trafficability; rubber-snow friction; wood-snow friction
116. AU - Shugurov, L.M.  
 TI - Giant automobiles  
 OTI - Avtomobili-giganty  
 SO - Moscow, Znanie, 1971 48 p  
 LA - Rus  
 IT - motor vehicles; all-terrain vehicles; tires; rubber-snow  
 friction
117. AU - Nilson, L.  
 TI - Tracked vehicle for use on snow  
 SO - Soviet Inventions Illustrated. Section 3, Mechanical and  
 General, Dec 1971, p E11-E12  
 LA - Eng, Rus  
 IT - snow vehicles; tracked vehicles
118. AU - Abele, G.; Parrott, W.H.  
 TI - Snow surface erosion from a peripheral jet cushion ACV  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
 Report Number SR 163, Oct 1971, 19 p  
 LA - Eng  
 IT - snow surface; deformation; tests; air cushion vehicles; snow  
 erosion
119. AU - Leighty, R.D.; Vogel, T.C.  
 TI - Infrared detection of military vehicles on snow-covered  
 background  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
 Report Number TR 155, July 1965, 101 p  
 LA - Eng  
 IT - aerial reconnaissance; remote sensing; snow cover
120. AU - Taylor, D.  
 TI - Polar construction equipment - weight reduction in a D4 Series  
 D snow tractor  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA,  
 Technical note, March 1965, N-689, 18 p  
 LA - Eng  
 IT - transportation; tractors; snow vehicles

121. AU - Pierce, N.E.; Moser, E.H.  
TI - Polar transportation equipment - tests on a model 4VL Trackmaster  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, June 1964, N-609, 8 p  
LA - Eng  
IT - cold weather performance; cold weather tests; transportation; cargo; tracked vehicles
122. AU - Taylor, D.  
TI - Maintenance information for the LGP caterpillar D4 Series C snow tractors  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, March 1964, N-574, 21 p  
LA - Eng  
IT - maintenance; manuals; cold weather operation; tractors; snow vehicles
123. AU - Pierce, N.E.; Moser, E.H.  
TI - Specifications for the Model 80 snow plane  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Oct 1962-N-463  
LA - Eng  
IT - snow vehicles; snow compaction; construction equipment; snow-planes; specifications
124. AU - Taylor, D.  
TI - Low ground pressure Caterpillar Model 955 Traxcavator specifications  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Sept 1962, N-459, 5 p  
LA - Eng  
TI - snow vehicles; tracked vehicles; specifications
125. AU - Taylor, D.  
TI - Low ground pressure Caterpillar D4 Snow Tractor specifications  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Aug 1962, N-456, 5 p  
LA - Eng  
IT - snow vehicles; tractors; specifications
126. AU - Doman, J.J.; Dawes, J.R.; Taylor, D.  
TI - Knock-down angle dozer installed on a Caterpillar D2 LGP Snow Tractor  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, June 1959, N-358  
LA - Eng  
IT - snow vehicles; tractors; construction equipment
127. AU - Doman, J.J.; Dawes, J.R.; Taylor, D.  
TI - Dual rail track system installed on Caterpillar D2 LGP Snow Tractors

- SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, April 1959, N-330  
LA - Eng  
IT - Transportation; tractors; snow vehicles
128. AU - Burton, G.W.; Radecki, C.T.  
TI - Experimental skis, toboggan and track attachments for 6x6 cargo carrier  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, May 1953, N-129, 11 p  
LA - Eng  
IT - cargo; performance; tests; sleds; snow vehicles; tracked vehicles
129. AU - Weiss, S.J.  
TI - Traction tests in snow at the Sierra Test Site, February-March 1952  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, March 1952, N-107, 5 p  
LA - Eng  
IT - tests; performance; snow strength; tracked vehicles; trafficability; traction
130. AU - Weiss, S.J.  
TI - Use of the Soil Truss Mark 2 in determining the shearing strength characteristics of a snow cover  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Jan 1952, N-75, 5 p  
LA - Eng  
IT - trafficability; snow cover; shear strength; test equipment
131. AU - Moser, E.H.; Sherwood, G.E.  
TI - Polar transportation - snow trails for light wheeled vehicles  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Aug 1967, R-540  
LA - Eng  
IT - vehicles; transportation; Antarctica; snow roads, trafficability
132. AU - Beard, W.H.  
TI - Polar transportation equipment - 4 x 4 cargo-personnel van with high-flotation tires  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Aug 1966, R-464  
LA - Eng  
IT - transportation; motor vehicles; cold weather operation; cold weather performance
133. AU - Taylor, D.  
TI - Polar construction equipment - LCP D4 Series D snow tractor  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, June 1966, R-449, 30 p

LA - Eng  
IT - snow vehicles; tractors; construction equipment; cold weather performance

134. AU - Beard, W.H.; Sherwood, G.E.  
TI - Polar transportation equipment, 6 x 6 truck-tractor and 20-ton semitrailer with high-flotation tires  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Oct 1965, R-409  
LA - Eng  
IT - cargo, transportation; snow vehicles; cold weather performance; tractors
135. AU - Beard, W.H.; Sherwood, G.E.  
TI - Polar transportation equipment - one-tone power wagon with high-flotation tires  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Aug 1965, R-401, 25 p  
LA - Eng  
IT - Antarctica; snow vehicles; transportation; cold weather; performance
136. AU - Taylor, D.  
TI - Polar construction equipment - LGP D4 Series C snow tractor  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, April 1964, R-299, 22 p  
LA - Eng  
IT - performance; snow vehicles; tractors; cold weather operation
137. AU - Moser, E.H.  
TI - Snow compaction in Antarctica - roads on snow-covered sea ice  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, March 1964, R-298, 23 p  
LA - Eng  
IT - ice roads; trafficability; Antarctica; snow compaction; snow roads; construction
138. AU - Moser, E.H.  
TI - Snow compaction - design criteria and test procedures  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, April 1964, R-113  
LA - Eng  
IT - tests; runways; snow roads; snow compaction; snow bearing strength; design criteria; trafficability
139. AU - Camm, J.B.  
TI - Snow-compaction equipment. Snow drags  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Oct 20, 1960, R-109, 401 p  
LA - Eng  
IT - snow compaction; snow roads, construction equipment

140. AU - Scott, A.L.; Taylor, D.  
TI - Dual-rail snow tracks for the Caterpillar D-4 Tractor  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Oct 27, 1960, R-106, 10 p  
LA - Eng  
IT - snow vehicles; tracked vehicles; performance
141. AU - Taylor, D.  
TI - Tundra truck  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Sept 30, 1960, R-94, 35 p  
LA - Eng  
IT - performance
142. AU - Taylor, D.; Doman, J.J.; Scott, A.L.  
TI - Dual-rail snow tracks for Model 955 Traxcavator  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical note, Aug 1960, R-90, 21 p  
LA - Eng  
IT - snow vehicles; tracked vehicles; performance
143. AU - Kevan, P.G.  
TI - Vehicle tracks on high Arctic tundra: an 11 year case history  
around Hazen Camp, Ellesmere Island, N.W.T.  
SO - Canada. Defence Research Board. Earth Sciences Division.  
Report, Sept. 1971, Hazen 41, 17 p  
LA - Eng  
IT - snow cover effect; damage; tundra terrain; tracked vehicles;  
frozen ground compression; soil strength
144. AU - Zlobin, G.P.; Simonov, I.U.A.  
TI - Air cushion ships  
OTI - (Suda na vozdushnoi podushke)  
SO - Leningrad, Sudostroenie, 1971, 212 p  
LA - Rus  
IT - cold weather performance; ships; air cushion vehicles;  
all-terrain vehicles
145. TI - Sleds  
SO - U.S. Army Test and Evaluation Command. Report, May 23,  
1969, MTP-2-3-065, 28 p  
LA - Eng  
IT - sleds; snow vehicles
146. AU - Khodakov, V.G.  
TI - Structure and properties of snow cover in various landscape  
types  
OTI - (Struktura i svoistva snezhnogo pokrova v raznykh  
landshaftnykh zonakh)  
SO - Geograficheskoe obshchestvo SSSR. Zabaikal'skii filial.  
Izvestiia, vol. 4, no. 3, 1968, p 58-68

- LA - Rus  
 IT - snow depth; snow temperature; albedo; snow density;  
 trafficability; tracked vehicles; landscape types; snow cover  
 distribution; tundra topography; forest tundra; taiga terrain; snow  
 cover structure
147. AU - Iankin, V.M.; Golovko, V.I.  
 TI - Thrust and cohesive properties of K-700 Tractors under winter  
 conditions  
 OTI - (Tiagovo-stsepnnye svoistva traktora K-700 v zimnikh  
 usloviakh)  
 SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo  
 sel'skogo khoziaistva, No. 1, 1971, p 35-36.  
 LA - Rus  
 IT - tracked vehicles; snow depth; metal snow friction; cold  
 weather performance
148. AU - Rukavishnikov, S.V.; Malygin, V.A.  
 TI - Relationship between rut depths and snow cover thickness  
 OTI - (Zavisimost' glubiny kolei ot tolshchiny snezhnogo pokrova)  
 SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo  
 sel'skogo khoziaistva, 1971, No. 1, p 34-35  
 LA - Rus  
 IT - tracked vehicles; snow depth; snow cover distribution; metal  
 snow
149. AU - Kuroiwa, D.; Wakahama, G.; Endo, Y.  
 TI - Snow compaction with snow vehicle (Snow Master)  
 SO - Low Temperature Science (Teion Kagaku). Series A, Physical  
 Sciences, 1970-28, p 215-223, In Japanese with English summary  
 LA - Jap, Eng  
 IT - skiing, snow compaction; snow vehicles; snow density
150. AU - Wuori, A.F.  
 TI - Snow stabilization studies  
 SO - Kingery, W.D., ed. Ice and snow, properties, processes and  
 applications, p 438-458, M.I.T., Cambridge, MA, 1963  
 LA - Eng  
 IT - equipment; trafficability; snow compaction; snow stabilization
151. AU - Vladimirov, V.  
 TI - On the road in winter  
 OTI - (Po zimnei doroge)  
 SO - Tekhnika i vooruzhenie, No. 1, Jan 1971, p 32  
 LA - Rus  
 IT - cold weather operation; roads; motor vehicles; rubber-snow  
 friction; military transportation; military equipment
152. AU - Wolff, A.  
 TI - Winter roads on ice



- SO - U.S. Army Cold Regions Research and Engineering Laboratory (ACFEL), Report Number ACFEL TL 23, 1954, 15 p, Translation from Svenska vagforening, Vol. 27, Dec 1940, 268-282  
 LA - Eng, Swe  
 IT - ice roads; road maintenance
153. AU - Shoikhet, B.M.  
 TI - Air cushion in industrial transportation  
 OTI - (Vozdushnaia podushka v promyshlennom transporte)  
 SO - Moscow, Znanie, 1970, 47 p  
 LA - Rus  
 IT - snow cover effect; transportation; air cushion vehicles; swamps
154. AU - Kabakov, N.S.; Chursin, L.I.  
 TI - Pull indices of a six-wheel-drive tractor-model under winter conditions  
 OTI - (Tiagovye pokazateli traktora-maketa s tremia vedushchimi mostami v zimnikh usloviakh)  
 SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 11, 1970, p 39-40  
 LA - Rus  
 IT - cold weather operation; rubber-snow friction; rubber-ice friction; vehicles; traction
155. AU - Segal', V.A.  
 TI - Drilling assemblies on air cushion, designed for Arctic conditions  
 OTI - (Proekty burovykh ustanovok na vozdushnoi podushke, prednaznachennykh dlia raboty v arkticheskikh usloviakh)  
 SO - Burenie, No. 9, 1970, p 30-32  
 LA - Rus  
 IT - Arctic climate; transportation; air cushion vehicles; drilling
156. AU - Parnell, P.  
 TI - Alaska trucking is rough work  
 SO - Alaska Industry, vol. 3, no. 2, Feb 1971, p 43-45, 52  
 LA - Eng  
 IT - highway transportation; ice roads; snow roads
157. AU - Jansen, D.  
 TI - Hovercraft to forefront of Arctic petroleum hunting  
 SO - Oilweek, vol. 33, no. 3, March 1971, p 40, 42, 48  
 LA - Eng  
 IT - snow cover effect; Canada-northwest territories-north slope; ice navigation; air cushion vehicles; all-terrain vehicles; marine transportation; petroleum industry
158. AU - Hanamoto, B.  
 TI - T-130 Studded Track Pad Test, ice and hard packed snow  
 SO - U.S. Army Tank Automotive Command. Mobility Systems Laboratory. Technical report, March 1971, No. 11090, 51 p

- LA - Eng  
IT - tracked vehicles; trafficability; performance; tests; snow cover; ice cover
159. AU - Abele, G.  
TI - Penetration of vehicle track grousers into hard snow  
SO - International Society for Terrain-Vehicle Systems. Third International Conference, July 9-12, 1969, Essen, W. Germany. Proceedings, Vol. 2, Report Number MP 11, 1969, p 1-24  
LA - Eng  
IT - tracked vehicles, snow hardness; penetration tests; trafficability
160. AU - Gerdel, R.W.  
TI - Influence of Arctic environment on military mobility  
SO - Society of Automotive Engineers. Automotive Engineering Congress, Detroit, MI, Jan. 14-18, 1963, Report Number MP 131, Jan 1963, No. 623C, 12 p  
LA - Eng  
IT - snow cover; ice cover strength; snow vehicles; military engineering; trafficability
161. TI - Practical experience with hovercraft  
SO - Air-cushion Vehicles, April 1967, p 53  
LA - Eng  
IT - snow cover effect; air cushion vehicles
162. AU - Ichihara, K.; Mizoguchi, M.  
TI - Skid resistance of snow- or ice-covered roads  
SO - National Research Council. Highway Research Board. Special report, Snow removal and ice control research. Proceedings of an international symposium held at Dartmouth College, Hanover, NH April 8-10, 1970, No. 115, April 1970, p 104-114, Includes discussion  
LA - Eng  
IT - roads; friction; temperature effects; vehicle wheels; snow cover effect; skid resistance
163. AU - Simakov, E.  
TI - Air-cushion all-terrain vehicles  
OTI - (Vozdushnye vezdekhody)  
SO - Moscow, DOSAAF, 1967, 79 p, (Pertinent pages 33-37)  
LA - Rus  
IT - air cushion vehicles
164. AU - Benua, I.U.IU.; Korsakov, V.M.  
TI - Air-cushion vessels  
OTI - (Suda na vozdushnoi podushke)  
SO - Leningrad, Sudpromgiz, 1962, 121 p (Pertinent pages 81-83)  
LA - Rus  
IT - air cushion vehicles; ships

165. AU - Ruzhitskii, E.I.  
TI - Air-cushion all-terrain vehicles  
OTI - (Vozdushnye vezdekhody)  
SO - Moscow, Mashinostroenie, 1964, 178 p (Pertinent pages 82-84)  
LA - Rus  
IT - air cushion vehicles
166. AU - Pearson, F.  
TI - Safe operation of motorized toboggans  
SO - Canadian Mining Journal, vol. 91, no. 9, Sept 1970, p 62-65  
LA - Eng  
IT - ice cover thickness; wind factors; snow vehicles
167. AU - Wilson, J.A.; Nelson, M.W.  
TI - History of the development of oversnow vehicles  
SO - Western Snow Conference. Proceedings, 1968, 36th, p 9-18  
LA - Eng  
IT - snow vehicles; history
168. AU - Viktorov, V.  
TI - In deep snow  
OTI - (Po glubokomu snegu)  
SO - Tekhnika i vooruzhenie, No. 1, Jan 1970, p 41  
LA - Rus  
IT - military transportation; military equipment; cold weather operation; vehicles
169. AU - Vologdin, V.  
TI - Vehicle with helical propellers  
OTI - (Vintokhod)  
SO - Tekhnika i vooruzhenie, No. 1, Jan 1970, p 24-25  
LA - Rus  
IT - military transportation; snow vehicles
170. AU - Moldenhawer, A.  
TI - Air cushion vehicles  
OTI - (Poduszkowce)  
SO - In Polish with abridged English table of contents enclosed.  
Warsaw, Wydawnictwa komunikacji i łączności, 1966, 262 p  
LA - Pol  
IT - snow cover effect; icing
171. AU - Brylov, S.A.; Grabchak, L.G.  
TI - Means of transportation for geological exploration  
OTI - (Transport pri geologorazvedochnykh rabotakh)  
SO - Moscow, Nedra, 1970, 184 p, (Pertinent pages 47-62, 94-102, 109-113)  
LA - Rus  
IT - snow roads; ice roads; transportation; vehicles; air cushion vehicles

172. AU - Korytov, N.V.  
TI - Boats and machines on air cushion  
OTI - (Suda i apparaty na vozdushnoi podushke)  
SO - Moscow, Voenizdat, 1964, 117 p, (Pertinent pages 74-79)  
LA - Rus  
IT - snow cover effect; air cushion vehicles; river ice; sea ice; icing
173. AU - Gurov, O.  
TI - Transportation equipment for northern regions  
OTI - (Tekhnika dlia Severa)  
SO - Tekhnika i vooruzhenie, No. 2, Feb 1969, p 32  
LA - Rus  
IT - vehicles; sleds; snow removal equipment; excavating equipment
174. AU - IAnkin, V.; Golovko, V.  
TI - Loading K-700 Tractor for winter road conditions  
OTI - (Zagruzka traktora K-700 na zimnikh transportnykh rabotakh)  
SO - Tekhnika v sel'skom khoziaistve, No. 1, 1970, p 53-54  
LA - Rus  
IT - cold weather operation; vehicles; vehicle wheels; rubber snow friction
175. AU - Nikolaev, A.F.; Gavrilov, I.U.M.; Kuliashov, A.P.; Persikov, V.I.  
TI - Testing machines equipped with rotary propellers in swamps  
OTI - (Nekotorye rezul'taty ispytaniia mashiny na rotno-vintovykh dvizhiteliakh v usloviakh zabolochennoi mestnosti)  
SO - Torfianaia promyshlennost', No. 12, 1969, p 2-4  
LA - Rus  
IT - lakes; swamps; propellers
176. AU - Abele, G.  
TI - Performance testing of an air cushion vehicle on the Greenland Ice Cap  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 91, Feb 1966, 19 p  
LA - Eng  
IT - air cushion vehicles
177. AU - Wuori, A.F.  
TI - Testing of a vibratory snow compactor  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 55, Jan 1965, 11 p  
LA - Eng  
IT - snow compaction
178. AU - Lanyon, J.J.  
TI - Conservation of M29C Weasel Tracks  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 42, Sept 1962, 7 p

- LA - Eng  
IT - snow vehicles; metals; tests
179. AU - Langway, C.C., Jr.  
TI - Snow studies and other observations - Operation King Dog, Sondrestrom, Greenland  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number SR 31, July 1959, 12 p  
LA - Eng  
IT - snow vehicles; traverses; ice mounds; ice surface features; snowfall; accumulation; meteorological data; topographic features
180. AU - Skinrood, A.C.  
TI - The effect of snow properties on vehicle trafficability in the Arctic  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number SR 22, Feb 1957, 13 p  
LA - Eng  
IT - snow vehicles; trafficability; snow strength
181. AU - Benson, C.S.  
TI - Observations of snow cover - Kapuskasing, Canada, 18-26 January 1954  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number SR 10, March 1954, 4 p  
LA - Eng  
IT - recrystallization; snow density; snow temperature; temperature distribution; temperature gradients; snow bearing strength; trafficability
182. AU - Mellor, M.  
TI - Oversnow transport  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number M III-A4, Jan 1963, 58 p  
LA - Eng  
IT - design criteria; snow vehicles; crevasse detection
183. AU - Landauer, J.K.; Royse, F.  
TI - Energy of snow compaction and its relation to trafficability  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number RR 14, Oct 1956, 11 p  
LA - Eng  
IT - snow compaction; trafficability
184. AU - Gerdel, R.W.; Parrott, W.H.; Diamond, M.; Walsh, K.J.  
TI - Some factors affecting the vehicular trafficability of snow  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number RR 10, Dec 1954, 13 p  
LA - Eng  
IT - trafficability; snow vehicles

185. AU - Abele, G.; Ramseier, R.O.; Wuori, A.F.  
TI - Design criteria for snow runways  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TR 212, Nov 1968, 36 p  
LA - Eng  
IT - runways; snow roads; sintering; snow compaction
186. AU - Abele, G.  
TI - Subsurface transportation methods in deep snow  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TR 160, Dec 1965, 48 p  
LA - Eng  
IT - snow trenches; trafficability; transportation; snow-  
construction material
187. AU - Abele, G.  
TI - Trafficability in snow trenches  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
(SIPRE), Report Number TR 88, Feb 1963, 13 p  
LA - Eng  
IT - snow bearing strength; hardness; compressive strength;  
Greenland; snow trenches; trafficability; snow-construction  
material; vehicles; railroads; subsurface structures
188. AU - Wuori, A.F.  
TI - Snow stabilization using dry processing methods  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
(SIPRE), Report Number TR 68, July 1960, 16 p  
LA - Eng  
IT - snow-construction material; snow removal equipment; snow  
compaction; snow vehicles; compacting
189. AU - Diamond, M.; Bader, H.; Lanyon, J.L.  
TI - Studies on vehicular trafficability of snow (Parts 1 and 2)  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
(SIPRE), Report Number TR 35, April 1956, July 1959, 16 p  
LA - Eng  
IT - snow cover; snow vehicles; trafficability
190. TI - Larven Power Ski  
SO - Journal of Terramechanics, vol. 6, no. 4, 1969, p 63-64  
LA - Eng  
IT - snow vehicles; skis
191. AU - Hanamoto, B.  
TI - Positive pitch control for multi-unit articulated vehicles  
SO - Journal of Terramechanics, vol. 6, no. 2, June 1969, p 29-34  
LA - Eng  
IT - vehicles; snow vehicles

192. AU - Beard, W.H.  
TI - Polar transportation equipment - four-wheel drive vehicle with high flotation tires  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, R-630, June 1969, 14 p  
LA - Eng  
IT - topographic features; Antarctica-McMurdo Station; snow vehicles; cold weather tests
193. AU - Moser, E.H., Jr.; Stehle, N.S.  
TI - Snow trails for wheeled vehicles  
SO - Polar Record, vol. 14, no. 93, Sept 1969, p 815-817  
LA - Eng  
IT - snow roads; bearing capacity
194. AU - Lavrent'ev, V.; Lipovskii, L.  
TI - Experimental IL-El67 Snowmobile  
OTI - (Opytnyi avtomobil'-snegokhod ZIL-El67)  
SO - Avtomobil'nyi transport, No. 2, Feb 1967, p 39-40  
LA - Rus  
IT - snow vehicles
195. AU - Buzuluk, O.; Pinchuk, S.  
TI - The North is tamed by man  
OTI - (Sever pokoriaetsia cheloveku)  
SO - Tyl i snabzhenie sovetskikh vooruzhennykh sil, No. 2, Feb 1969, p 85-88  
LA - Rus  
IT - Arctic regions; transportation; vehicles
196. AU - Kemshall, R.  
TI - Tractors on ice  
SO - Canadian Mining Journal, vol. 90, no. 9, Sept 1969, p 64  
LA - Eng  
IT - frozen lakes; ice bearing capacity; snow vehicles; trafficability
197. AU - Panov, V.I.  
TI - Interaction between Caterpillar band and snow cover  
OTI - (Issledovanie vzaimodeistviia gusenichnogo dvizhitelia so snezhnym pokrovom)  
SO - Gor'kii. Politekhnicheskii Institut. Trudy, vol. 21, no. 1, 1965, p 43-51  
LA - Rus  
IT - snow vehicles; trafficability
198. AU - IAnkin, V.M.  
TI - Tractive-adhesive properties of Caterpillar Tractors on snow  
OTI - (Tiagovo-shtsepye svoistva traktorov pri rabote zimoi)  
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 2, 1969, p 7-9

- LA - Rus  
IT - snow cover; traction; adhesive strength
199. AU - Thomson, R.B.  
TI - Landrover for Antarctic use  
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 392-394, Tokyo, Japan, Ministry of Education, 1968  
LA - Eng  
IT - snow vehicles; performance; cold weather operation
200. AU - Heine, A.J.  
TI - Field use of motor toboggans  
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 387-391, Tokyo, Japan, Ministry of Education, 1968  
LA - Eng  
IT - snow vehicles; performance
201. AU - Nishibori, E.  
TI - Report on the Model KD-60 oversnow vehicles  
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 348-381, Tokyo, Japan, Ministry of Education, 1968  
LA - Eng  
IT - design criteria; snow vehicles; cold weather operation; traverses
202. TI - New French polar vehicles HB 40  
OS - Expeditions Polaires Francaises  
SO - Antarctic Treaty Meeting of experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 339-347, Tokyo, Japan. Ministry of Education, 1968  
LA - Eng  
IT - snow vehicles
203. AU - Brown, A.M.; Smith, F.A.  
TI - Small caravan for Antarctic traverses  
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 329-338, Tokyo, Japan, Ministry of Education, 1968  
LA - Eng  
IT - heating; traverses; snow vehicles; portable shelters
204. AU - Brown, A.M.; Smith, F.A.  
TI - Experience with Nodwell RN110B Tracked Carrier  
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 321-328, Tokyo, Japan, Ministry of Education, 1968  
LA - Eng  
IT - snow vehicles; tracked vehicles



205. AU - Vasil'ev, A.P.; Ivanov, IU.P.  
TI - Safety of motor-vehicle traffic in winter  
OTI - (Obespechenie bezopasnosti dvizheniia avtomogilei zimoi)  
SO - Avtomobil'nye dorogi, No. 12, Dec 1968, p 16-17  
LA - Rus  
IT - roads; icing; snowdrifts; snow removal equipment; ice prevention
206. AU - Smieja, L.R.  
TI - Snow vehicle with side enclosed passenger compartment  
SO - U.S. Patent Office. Patent, Oct 8, 1968, 7 p  
LA - Eng  
IT - snow vehicles
207. AU - Nikulin, V.  
TI - Motorized snow vehicles  
OTI - (Liubiteliia motosnegokhodov)  
SO - Sel'skii mekhanizator, vol. 11, no. 6, June 1968, p 15  
LA - Rus  
IT - snow vehicles
208. AU - Cheremisinov, M.M.  
TI - New Caterpillar Truck for driving in swamp and snow  
OTI - (Novyi bolotosnegokhod)  
SO - Mekhanizatsiia stroitel'stva, vol. 23, no. 4, 1966, p 28  
LA - Rus  
IT - snow vehicles
209. AU - Lipman, G.; Turgenev, G.  
TI - Snow vehicles  
OTI - (Snegokhody)  
SO - Moscow, Znanie, 1965, 32 p  
LA - Rus  
IT - snow vehicles
210. AU - Klochkov, IU.  
TI - Motion of a Caterpillar-Tractor on snow when making a turn  
OTI - (Dvizhenie gusenichnogo traktora na povorote po snegu)  
SO - Tekhnika v sel'skom khoziaistve, vol. 26, no. 2, Feb 1966, p 80-81  
LA - Rus  
IT - snow vehicles; tracked vehicles
211. AU - Yong, R.N.; Fattah, E.A.; Youssef, A.  
TI - Performance of a passive grouser-track system  
SO - Society of Automotive Engineers Technical Paper No. 760654.  
Also published in SAE Transactions, 1976  
IT - vehicle performance: vehicle performance tests
212. AU - Carver, G.C.  
TI - Truck chassis frame considerations in equipment mounting  
SO - Society of Automotive Engineers Technical Paper No. 760291.  
Also published in SAE Transactions, 1976

- IT - truck design; winches; utility vehicles; snow vehicles; frames
213. AU - Kho, J.K.H.; Newman, J.A.  
TI - Braking characteristics of the recreational snowmobile  
SO - Society of Automotive Engineers Technical Paper No. 730783  
IT - brakes; snow vehicles
214. AU - Prasad, K.K.  
TI - A study of snowmobile drive systems  
SO - Society of Automotive Engineers Technical Paper No. 730782  
IT - automatic transmissions; snow vehicles
215. AU - Schanhals, L.R.; Pershing, R.L.  
TI - Performance testing and criteria for snowmobile seat cushions  
SO - Society of Automotive Engineers Technical Paper No. 730770  
IT - human engineering; impact tests; seats; snow vehicles
216. AU - Wood, W.A.  
TI - Design and development of the Kitty Cat Child's Snowmobile  
SO - Society of Automotive Engineers Technical Paper No. 730756  
IT - snow vehicles
217. AU - Keller, A.T.  
TI - Jackknife control for tractor-trailer  
SO - Society of Automotive Engineers Technical Paper No. 730643  
IT - truck trailers; vehicle safety
218. AU - Ward III, H.M.; Miller, G.E.; Stephenson, D.K.  
TI - Outboard marine corporation's production rotary-combustion snowmobile engine  
SO - Society of Automotive Engineers Technical Paper No. 730119.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - engine cooling; rotary combustion engines; seals; snow vehicles
219. AU - Fujikawa, T.  
TI - Technical aspects of 2-stroke cycle snowmobile engines  
SO - Society of Automotive Engineers Technical Paper No. 720747  
IT - combustion; snow vehicles; two stroke cycle engines
220. AU - Nordstrom, D.A.  
TI - PolyTrac - a unique approach to engineering problems  
SO - Society of Automotive Engineers Technical Paper No. 720745  
IT - snow vehicles; plastics
221. AU - Newman, J.A.; Cheng, S.; Suri, V.K.  
TI - A hybrid computer simulation of the recreational snowmobile  
SO - Society of Automotive Engineers Technical Paper No. 720261.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - computer simulation; snow vehicles; suspension systems; vehicle dynamics; vibration

222. AU - Hazzard, H.I.  
TI - The McCulloch BP-399-T snowmobile engine and its installation  
SO - Society of Automotive Engineers Technical Paper No. 720260  
IT - gasoline engines; snow vehicles; two stroke cycle engines; vibration
223. AU - Kumen, H.  
TI - Practical snowmobility for ordnance vehicles  
SO - Society of Automotive Engineers Technical Paper No. 720259.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - cold weather operation; military vehicles; mobility research; snow vehicles
224. AU - Karleen, C.I.  
TI - Snowmobiling with associated maxillofacial injuries  
SO - Society of Automotive Engineers Technical Paper No. 720258  
IT - crash research; human factors injuries; snow vehicles
225. AU - Janowski, W.R.  
TI - Arctic operations with the twister testbed  
SO - Society of Automotive Engineers Technical Paper No. 710715  
IT - cold weather operation; snow vehicles
226. AU - Smith, J.L.  
TI - Product verification tests on a snowmobile  
SO - Society of Automotive Engineers Technical Paper No. 710711  
IT - snow vehicles; stresses
227. AU - Newman, J.A.; Beale, D.J.  
TI - The snowmobile suspension - a high speed motion picture study  
SO - Society of Automotive Engineers Technical Paper No. 710667  
IT - snow vehicles; suspension systems
228. AU - Lake, L.  
TI - Technical aspects of the transition from motorcycles to snowmobiles  
SO - Society of Automotive Engineers Technical Paper No. 710665  
IT - motorcycles; snow vehicles
229. AU - Hazzard, H.I.  
TI - Recreational vehicle engines and their installation  
SO - Society of Automotive Engineers Technical Paper No. 710664.  
Also published in SAE Transactions Vol. 80, 1971  
IT - aircooled engines; snow vehicles; two stroke cycle engines
230. AU - Haines, W.M.  
TI - A new approach to positive drive snowmobile tracks  
SO - Society of Automotive Engineers Technical Paper No. 710231  
IT - snow vehicles

231. AU - Janosi, Z.J.; Liston, R.A.; Martin, L.A.; Sloss, D.A.  
TI - Commercial off-road vehicles  
SO - Society of Automotive Engineers Technical Paper No. 700012  
IT - agricultural machinery; construction equipment design; logging equipment; snow vehicles
232. AU - Eskelson, R.W.  
TI - Heavy-duty over-snow and off-highway vehicles  
SO - Society of Automotive Engineers Technical Paper No. 690573  
IT - amphibious vehicles; military vehicles; snow vehicles
233. AU - Eskelson, R.W.  
TI - Parameters of over-snow vehicle design  
SO - Society of Automotive Engineers Technical Paper No. 680030  
IT - soil mechanics; utility vehicles
234. AU - Brown, R.J.  
TI - Snow Studies, Vol. 2, 1975-October, 1979 (A Bibliography with Abstracts)
235. AU - Cochrane, H.C.; Knowles, B.A.  
TI - Assessment  
SO - Colorado University, Boulder; Institute of Behavioral Science; Boulder, CO, 1975, PB 242977
236. AU - Parfenov, N.  
TI - And into the cold, and into snowstorm  
OS - Foreign Technology Div., Wright-Patterson AFB, OH  
SO - Unedited machine translation of Starshina Serzhant, (USSR) n; (136), FTD-ID(RS)T-0075-77, p 22-23, 1972.
237. AU - Ross, B.  
TI - Penetration studies of ice with application to Arctic and Subarctic Warfare - Phase II Study  
OS - Stanford Research Inst., Menlo Park, CA, Naval Warfare Research Center  
SO - Final Rept. Report Number NWRC-3072, Contract: NOHR-2332, 1 Jan-31, Dec 1966,
238. AU - Knight, S.J.; Smith, N.H.  
TI - Forecasting trafficability of soils; a pilot study of soils subjected to freezing and thawing  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Technical memo, Report Number AEWES-TM-3-331-7, Jun 1964, 89  
P
239. TI - Military evaluation of geographic areas, reports on activities to April 1963  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Report Number AEWES-Misc-Paper-3-610, Dec 1963, 237 p

240. AU - Hansen, R.W.  
TI - Snow transport equipment - tractor-mounted snowplow tests  
OS - Naval Civil Engineering Lab, Port Hueneme, CA  
SO - Report Number NCEL-TN-610, 29 June 1964, 10 p
241. AU - Horne, W.B.; Yager, T.J.; Sleeper, R.K.; Smith, E.G.; Merritt, L.R.  
TI - Preliminary test results of the Joint FAA-USAF-NASA Runway Research Program. Part 2: Traction measurements of several runways under wet, snow covered, and dry conditions with a Douglas DC-9, a diagonal-braked vehicle, and a mu-meter  
OS - National Aeronautics and Space Administration. Langley Research Center, Langley Station, VA.  
SO - Report Number NASA-TM-X-73910, May 1977, 341 p
242. AU - Kolb, C.R.; Holmstrom, F.M.G.  
TI - Review of research on military problems in cold regions. Symposium. Presented at Fifteenth Alaskan Science Conference, American Association for the Advancement of Science, College, Alaska. 31 August-4 September 1964  
OS - Arctic Aeromedical Lab, Fort Wainwright, AK  
SO - Report Number AAL-TDR-64-28, Dec 1964, 169 p
243. TI - Marsh screw amphibian  
OS - Chrysler Corp, Detroit, MI  
AU - Gorton, J.V.; Neumeyer, M.J.  
SO - Contract: NOBS4558, 1963, 180 p  
IT - amphibious vehicles; performance-engineering; swamps-amphibious vehicles
244. AU - Shamburger, J.H.; Kolb, C.R.; Woods, H.K.  
TI - Terrain evaluation of a portion of the Fort Greely Automotive Test Course  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Report Number AEWES-Misc-Paper-3-861, Dec 1966, 88 p
245. AU - Kaifesh, M.W.  
TI - Self-cleaning track snow pad for track laying vehicles  
OS - Department of the Army  
SO - Report Number PAT-APPL-734-280
246. AU - Brown, R.J.  
TI - Snow studies. Volume 1. 1964-1974 (A bibliography with abstracts)  
SO - Report for 1964-74, Oct 76, 216 p
247. AU - Kihlgren, B.  
TI - Snow plow investigations  
OS - Cold Regions Research and Engineering Lab, Hanover, NH  
SO - Trans. of Statens Vaginstitut, Stockholm. Rapport (Sweden) number 38, 1961, 1970, 48 p

248. AU - Dykins, J.E.; Coffin, R.C., Jr.; Moser, E.H., Jr  
TI - Compacted-snow parking area for the 1960 Olympic Winter Games  
OS - Naval Civil Engineering Lab, Port Hueneme, CA  
SO - Report Number NCEL-TN-347, 12 Aug 1958, 40 p
249. AU - Abele, G.; Gow, A.J.  
TI - Compressibility characteristics of compacted snow  
OS - Cold Regions Research and Engineering Lab, Hanover, NH  
SO - Report Number CRREL-76-21, Jun 1976, 57 p
250. AU - Cronin, J.E.  
TI - Earth science related environmental factors in polar region construction  
OS - Naval Civil Engineering Lab, Port Hueneme, CA  
SO - Report Number CEL-TN-1406, Nov 1975, 47 p
251. AU - Brown, R.J.  
TI - Snow studies (A bibliography with abstracts)  
SO - Report for 1964-Jul 1975
252. AU - Abele, G.; Gow, A.J.  
TI - Compressibility characteristics of undisturbed snow  
OS - Cold Regions Research and Engineering Lab, Hanover, NH  
SO - Report Number CRREL-RR-336, 1975
253. AU - Meyer, M.P.  
TI - A bibliography with abstracts of U.S. Army Engineer Waterways Experiment Station publications related to vehicle mobility  
OS - Army Waterways Experiment Station, Vicksburg, MS.  
SO - Report Number PSTIAC Report No. 3, Aug 1976, 430 p
254. TI - Report on the symposium on snowmobiles and the environment held at Hanover, N.H., on March 3-5, 1972  
SO - Environmental Protection Agency, Washington, DC, 1972, 83 p
255. TI - Proceedings of the International Congress on Automotive Safety (2nd), held on July 16-18, 1973, at Hotel St. Francis, San Francisco, CA. Volume II. Recreational Vehicle Safety  
SO - National Motor Vehicle Safety Advisory Council, Washington, DC, 1973, 372 p, PB227836
256. AU - Colbeck, S.C.  
TI - Theory of metamorphism of wet snow  
OS - Cold Regions Research and Engineering Lab, Hanover, NH  
SO - Report Number CRREL-RR-313, Dec 1973, 19 p
257. AU - Lodico, N.J.  
TI - Environmental effects of off-road vehicles. A review of the literature  
OS - Department of the Interior, Washington, DC, Research Services Branch

AD-A108 228

COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH

F/G 15/5

MOBILITY BIBLIOGRAPHY.(U)

NOV 81 N LISTON, M HUTT, L WHITE

UNCLASSIFIED

CRREL-SR-81-29

NL

2 of 4

4 of 4

10 of 10

11 of 11

12 of 12

13 of 13

14 of 14

15 of 15

16 of 16

17 of 17

18 of 18

19 of 19

20 of 20

21 of 21

22 of 22

23 of 23

24 of 24

25 of 25

26 of 26

27 of 27

28 of 28

29 of 29

30 of 30

31 of 31

32 of 32

33 of 33

34 of 34

35 of 35

36 of 36

37 of 37

38 of 38

39 of 39

40 of 40

41 of 41

42 of 42

43 of 43

44 of 44

45 of 45

46 of 46

47 of 47

48 of 48

49 of 49

50 of 50

51 of 51

52 of 52

53 of 53

54 of 54

55 of 55

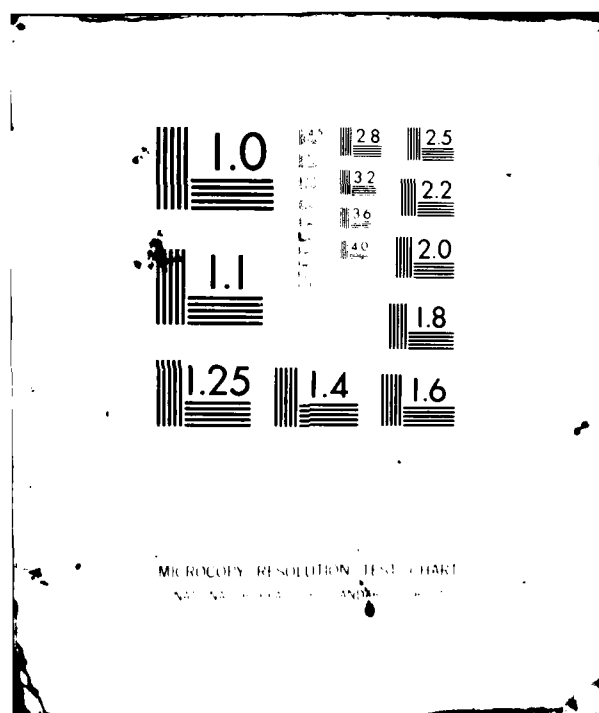
56 of 56

57 of 57

58 of 58

59 of 59

60 of 60





- SO - Report Number DOI-RSB-73-01, Sep 1973, 121 p
258. AU - Thompson, W.J.  
 TI - Report of an experiment examining the air cushion concept in a logistical role in the Arctic, 1972  
 OS - Army Alaska, APO, Seattle
259. AU - Schreiner, B.G.  
 TI - Trafficability of snow in Arctic and Subarctic regions  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - Report Number AEWES-Misc-Paper-4-713, 1965, 20 p
260. TI - 4,000-pound-capacity rough-terrain forklift truck  
 OS - Pittsburgh Univ., Washington, DC, Research Staff, 1967, 11 p  
 SO - Contract Rept.: DA-49-186-AMC-214(D), Project Rept.: DA-1-G-643324-D-586, 1967, 11 p
261. AU - McKnight, A.J.; Adams, B.B.  
 TI - Driver education task analysis. Volume II: Task analysis methods  
 OS - Human Resources Research Organization, Alexandria, VA.  
 SO - Report Number HUMRRO-IR-D1-70-1, Contract Report FH-11-7336, 1970, 46 p
262. TI - Road sweepers  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 Final report on materiel test procedure  
 SO - Report Number MTP-9-3-125, 1970, 15 p
263. AU - Horne, W.B.; Phillips, W.P.; Sparks, H.C.; Yager, T.J.  
 TI - Comparison of aircraft and ground vehicle stopping performance on dry, wet, flooded, slush-, snow-, and ice-covered runways final report  
 OS - National Aeronautics and Space Administration. Langley Research Center, Langley Station, VA  
 SO - Report Number NASA-TN-D-6098; L-7565, 1970, 197 p
264. TI - Investigation of snow compaction methods and equipment conducted for engineer research and development laboratories, fiscal year 1949. Appendix. Tables, drawings and photographs. Description of specialized procedures. Plan of test  
 OS - Arctic Construction and Frost Effects Lab., Boston, MA, 1949, 212 p
265. TI - Investigation of snow compaction methods and equipment conducted for engineer research and development laboratories, fiscal year 1949  
 OS - Arctic Construction and Frost Effects Lab., Boston, MA  
 Report of Investigations, Jun 1949, 216 p

266. AU - Bender, J.A.  
TI - Testing of a compacted snow runway  
OS - Snow, ice, and Permafrost Research Establishment, Wilmette, IL  
SO - Report Number SIPRE-TR-42, 1956, 38 p
267. TI - Summary of snow compaction tests 1952-53, Kapuskasing, Canada  
OS - Snow, Ice, and Permafrost Research Establishment, Wilmette, IL  
SO - Report Number SIPRE-SR-7, 1954, 24 p
268. AU - Stehle, N.S.  
TI - Snow compaction - investigation of metamorphism of snow  
OS - Naval Civil Engineering Lab., Port Hueneme, CA  
SO - Report Number NCEL-TR-706, Dec 1970, 29 p
269. AU - Walker, G.E.; Garland, L.A.  
TI - Field tests of winterized equipment  
OS - SR and TC Snow Removal and Ice Control Ltd., Ottawa, Ontario  
SO - Apr 1969, 200 p
270. AU - Yager, T.J.; Phillips, W.P.; Horne, W.B.; Sparks, H.C.  
TI - A comparison of aircraft and ground vehicle stopping performance on dry, wet, flooded, slush-, snow-, and ice-covered runways  
OS - National Aeronautics and Space Administration, Langley Research Center, Langley Station, VA  
SO - Monitor: NASA-TN-D-6098, Final Rept., Nov 1970, 199 p
271. AU - Kartashov, S.N.  
TI - Physical and mechanical properties and the forming of the snow-firn cover of eastern Antarctica  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Translation of mono. Fiziko-Mekhanicheskie Svoistva i Protssessy Formirovaniya Snezhnogo Pokrova Vostochnoi Antarktidii, Moscow, 1962, 107 p
272. AU - Bilello, M.A.; Bates, R.E.; Riley, J.  
TI - Physical characteristics of the snow cover, Fort Greely, Alaska, 1966-67  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Report Number CRREL-TR-230, Sep 1970, 38 p
273. AU - Bilello, M.A.  
TI - Relationships between climate and regional variations in snow-cover density in North America  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Report Number CRREL-RR-267, Dec 1969, 24 p
274. AU - Tobiasson, W.; Grant, J.  
TI - Vehicular access to undersnow facilities  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Report Number CRREL SR-117, 1969

275. TI - Transport vehicles  
OS - Library of Congress, Aerospace Technology Division,  
Washington, DC  
SO - Surveys of foreign scientific and technical literature  
Report Number ATD-69-70, 30 Jun 1969, 64 p
276. AU - Hogbin, L.E.  
TI - Damage to roads by studded tyres  
OS - Road Research Lab., Crowthorne, England  
SO - Report Number RRL-LR208, 1968, 12 p
277. AU - Paige, R.A.  
TI - Ice and snow terrain features, McMurdo Station, Antarctica  
OS - Naval Civil Engineering Lab., Port Hueneme, CA  
SO - Report Number NCEL-TN-840, Sep 1966, 22 p
278. AU - Terry, C.W.  
TI - Investigation of new instrumentation and techniques for rapid  
evaluation of load bearing capacity of temporary roads, runways and  
compacted areas (snow and soil)  
OS - Naval Civil Engineering Lab., Port Hueneme, CA  
SO - Report Number NCEL-TN-852, Oct 1966, 21 p
279. AU - Stehle, N.S.; Sherwood, G.E.  
TI - Surface hardening of compacted snow in Antarctica  
OS - Naval Civil Engineering Lab., Port Hueneme, CA  
SO - Report Number NCEL-TN-841, Sep 1966, 14 p
280. AU - Stehle, N.S.  
TI - Surface hardening of compacted snow by controlled solar  
radiation absorption  
OS - Naval Civil Engineering Lab., Port Hueneme, CA  
SO - Report Number NCEL-TN-790, Nov 1965, 20 p
281. AU - Maloney, J.C.  
TI - Effects of vehicular operation on contaminated slushy roads  
OS - Army Nuclear Defense Lab., Edgewood Arsenal, MD  
SO - Report Number NDL-TM-45, Jul 1968, 29 p
282. TI - Evaluation of diesel engined jeep (Japan)  
OS - Michigan Technological Univ., Keweenaw Research Center,  
Houghton, MI, 1967, 42 p
283. AU - Abele, G.; Frankenstein, G.  
TI - Snow and ice properties as related to roads and runways in  
Antarctica  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Report Number CRREL-TR-176, Oct 1967, 45 p
284. AU - Donovan, D.L.  
TI - Fuel systems for recreational vehicles

- SO - SAE Paper 700164 for meeting Jan 12-16, 1970, 9 p  
IT - automobile engines, carburetors
285. AU - Moser, E.H., Jr.; Sherwood, G.E.  
TI - Compacted-snow runways in Antarctica Deep Freeze 65 trials  
OS - Naval Civil Engineering Lab., Port Hueneme, CA  
SO - Report Number TR-R-480, Sep 1966, 2 p
286. TI - Cold Regions Research and Development Symposium, Hanover, NH,  
March 17-18, 1964  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Report Number SR-80, 1964
287. AU - Abele, G.  
TI - Construction of a snow runway at Camp Century for wheel  
landings with lightweight aircraft  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Monitor: CRREL-SR62, Aug 1964, 2 p
288. AU - Stearns, S.R.  
TI - Flexural properties of snow and snow-ice  
OS - Dartmouth College, Dept. of Civil Engineering, Hanover, NH  
SO - Special Report, 1964
289. AU - Rikhter, G.D.  
TI - Snow cover. Its formation and properties  
OS - Cold Regions Research and Engineering Lab., Hanover, NH  
SO - Translation of Snezhnii Pokrov, Ego Formirovanie i Svoistva,  
Moscow, 1945. Report Number CRREL-Trans-6, Aug 1954, 61 p
290. AU - Mironov, A.  
TI - Hercules of the snow ocean  
OS - Army Foreign Science and Technology Center, Washington, DC  
SO - Translation from Krasnaya Zvezda (USSR) 13 Mar 1965. Report  
Number FSTC-381-T65-321, Jul 1965, 6 p
291. AU - Liston, R.A.; Hegedus, E.  
TI - Dimensional analysis of load sinkage relationships in soils  
and snow  
OS - Army Tank Automotive Center, Land Locomotion Lab., Warren,  
MI.  
SO - Report Number LL-100, Dec 1964, 58 p
292. TI - A review of studies relating meteorological parameters to  
snow conditions on the Greenland Ice Cap  
OS - Air Force Cambridge Research Labs., Bedford, MA, 1962, 17 p
293. AU - Garrett, K.  
TI - Stonefield cross-country vehicles  
SO - Automot Eng, London, vol. 3, no. 4, Aug-Sep 1978, p 30-31  
IT - vehicles; off road operation

294. AU - Megerlin, F.E.; Smejkal, R.  
TI - Application of hydrostatic transmissions in mechanical engineering  
SO - Linde Rep Sci Technol, no. 25, 1977, p 34-45  
IT - automobile transmissions; hydraulic; agricultural machinery; hydraulic equipment; industrial trucks-hydraulic equipment; mechanical engineering
295. AU - Veres, R.E.  
TI - Tire noise investigation and test method  
OS - Ford Motor Co.  
SO - SAE Preprint, no. 760152 for meeting Feb 23-27, 1976, 20 p  
IT - automobiles-tires; noise abatement
296. AU - Atherton, D.L. Eastham, A.R.  
OS - Queen's Univ., Kingston, Ontario  
SO - IEEE Trans Magn, vol. MAG-11, no. 2 Mar 1975, for meeting, Argonne National Lab., IL, and National Accel Lab., Batavia, IL, Sep 30-Oct 2, 1974, p 627-632  
IT - vehicles-magnetic suspension; superconducting magnets
297. AU - Senac, G.  
TI - Tests with turbine train RTG 01  
SO - Fr Railw Tech, vol. 17, no. 4 1974, p 123-140  
IT - locomotives; gas turbine
298. AU - Atherton, D.L.; Eastham, A.R.  
TI - Guidance of a high speed vehicle with electrodynamic suspension  
OS - Queen's Univ., Kingston, Ontario  
SO - IEEE Trans Magn vol. MAG-10, no. 3, Sep 1974, p 413-416  
IT - vehicles-magnetic suspension; electric motors; synchronous
299. AU - Bekker, M.G.  
TI - Tracked vehicles for the Arctic  
SO - Machine Design, vol. 46, no. 13, May 30, 1974, p 20-22, 24  
IT - vehicles-off road operation; soils-Muskeg; tractors-soil factors
300. AU - Zoeppritz, H.P.  
OS - Phoenix Gummiwerke, Hamburg-Harburg, Germany  
SO - Gummi, Asbest, Kunstst, vol. 26, no. 11, Nov 1973, p 950, 952, 954, 956  
IT - tires-traction; automobiles-riding qualities; roads and streets
301. AU - Carpentier, N.  
TI - Design and application of skidozer snowmobile trail grooming equipment  
OS - Bombardier Ltd

- SO - SAE Preprint no. 730755 for meeting Sep 10-13, 1973, 12 p  
 IT - vehicles-off road operation; snow and snowfall-  
 trafficiability)
302. AU - Nault, J.  
 TI - Case for specialized snow trucks  
 SO - Better Roads, vol. 41, no. 10, Oct 1971, p 17-19  
 IT - snow plows
303. TI - The automatic steering of vehicles. An experimental system  
 fitted to a DS 19 Citroen car  
 SO - Gt Brit. Min Transp. Road Res Lab., RRL Rep LR 340, 1970, 26 p  
 IT - automobiles-steering systems; servomechanisms-hydraulic
304. AU - Janosi, Z.; Liston, R.A.; Martin, L.A.; Sloss, D.A.  
 TI - Snow mobility design tolerates no compromise with environment.  
 SO - SAE Journal of Automotive Engineering, vol. 78, no. 9, Sept  
 1970, p 46-47  
 IT - off road operation; snow-trafficiability
305. AU - Hazzard, H.I.  
 TI - The McCulloch BP-399-T Snowmobile Engine and its installation  
 SO - Society of Automotive Engineers Technical Paper No. 720260  
 IT - gasoline engines; snow vehicles; two stroke cycle engines;  
 vibration
306. AU - Newman, J.A.; Cheng, S.; Suri, V.K.  
 TI - A hybrid computer simulation of the recreational snowmobile  
 SO - Society of Automotive Engineers Technical Paper No. 720261.  
 Also published in SAE Transactions Vol. 81, 1972  
 IT - computer simulation; snow vehicles; suspension systems;  
 vehicle dynamics; vibration
307. AU - Fujikawa, T.  
 TI - Technical aspects of 2-stroke cycle snowmobile engines  
 SO - Society of Automotive Engineers Technical Paper No. 720747  
 IT - combustion; snow vehicles; two stroke cycle engines
308. AU - Nordstrom, D.A.  
 TI - PolyTrac - a unique approach to engineering problems  
 SO - Society of Automotive Engineers Technical Paper No. 720745  
 IT - snow vehicles; plastics
309. AU - Haines, W.M.  
 TI - A new approach to positive drive snowmobile tracks  
 SO - Society of Automotive Engineers Technical Paper No. 710231  
 IT - snow vehicles
310. AU - Newman, J.A.; Beale, D.J.  
 TI - The snowmobile suspension - a high speed motion picture study  
 SO - Society of Automotive Engineers Technical Paper No. 710667  
 IT - snow vehicles; suspension systems

311. AU - Ward H.M., III; Miller, G.E.; Stephenson, D.K.  
TI - Outboard Marine Corporation's production rotary-combustion snowmobile engine  
SO - Society of Automotive Engineers Technical Paper No. 730119.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - engine cooling; rotary combustion engines; seals; snow vehicles
312. AU - Wood, W.A.  
TI - Design and development of the Kitty Cat Child's Snowmobile  
SO - Society of Automotive Engineers Technical Paper No. 730756  
IT - snow vehicles
313. AU - Hollnagel, H.E.  
TI - Snowmobile ski suspensions  
SO - Society of Automotive Engineers Technical Paper No. 740677  
IT - suspension systems; systems; safety; design
314. AU - Hazzard, H.I.  
TI - Recreational vehicle engines and their installation  
SO - Society of Automotive Engineers Technical Paper No. 710664.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - aircooled engines; snow vehicles; two stroke cycle engines

Chapter II - Rolling resistance.



## CHAPTER II

1. AU - Lidstrom, M.  
TI - Aircraft rolling resistance in loose dry snow; a theoretical analysis  
SO - Sweden, Statens vag- och trafikinstitut. Rapport, 1979, No. 173A, 30 p  
LA - Eng  
IT - theories; aircraft landing areas; airplanes; snow cover effect; friction; snow strength; snow compression; loads-forces; snow physics
2. AU - Kihlgren, B.  
TI - Rolling resistance of aircraft wheels in dry snow  
SO - National Swedish Road and Traffic Research Institute. Report, 1977-VTI-128, 36 p., in Swedish with English summary  
LA - Swe, Eng  
IT - airplanes; vehicle wheels; friction; snow cover effect
3. AU - Taylor, D.  
TI - Tundra truck  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, Sept 30, 1960-R-94, 35 p  
LA - Eng  
IT - performance
4. AU - Knight, R.E.  
TI - Tire parameter effects on truck fuel economy  
SO - Society of Automotive Engineers, Technical Paper No. 791043  
IT - fuel economy; tires; truck operation-truck performance; vehicle performance tests
5. AU - Bechtold, R.L.  
TI - Ingredients of fuel economy  
SO - Society of Automotive Engineers, Technical Paper No. 790928  
IT - fuel economy; energy conservation; regulations; passenger car design; aerodynamics
6. AU - Tarpinian, H.D.; Nybakken, G.H.; Mishory, J.  
TI - A fuel saving passenger tire  
SO - Society of Automotive Engineers, Technical Paper No. 790726  
IT - fuel economy; rubber-synthetic rubber; temperature measurement; thermal measurements; tires
7. AU - Velinsky, S.A.; White, R.A.  
TI - Increased vehicle energy dissipation due to changes in road roughness with emphasis on rolling losses  
SO - Society of Automotive Engineers, Technical Paper No. 790653  
IT - computer simulation; damping; fuel consumption; roads

8. AU - Brown, C.; Gusakov, I.  
TI - A mathematical technique for predicting equilibrium rolling resistance of tires from short duration tests  
SO - Society of Automotive Engineers, Technical Paper No. 790118  
IT - tires; computer simulation
9. AU - Tillinger, D.E.; Weber, J.R.; Strowe, R.H.  
TI - Inter-test facility rolling resistance correlation via control tire concept and computer multiple regression modeling  
SO - Society of Automotive Engineers, Technical Paper No. 790117  
IT - computer applications; fuel economy; graphic methods; mathematical analysis; regression analysis
10. AU - Clark, S.K.; Schuring, D.J.  
TI - Interlaboratory tests for tire rolling resistance  
SO - Society of Automotive Engineers, Technical Paper No. 780636  
IT - tires
11. AU - Lloyd, S.E.  
TI - Development of a flat surface tire rolling resistance facility  
SO - Society of Automotive Engineers, Technical Paper No. 780635  
IT - fuel economy; tires
12. AU - Lippmann, S.A.; Oblizajek, K.L.; Metters, J.J.  
TI - Sources of rolling resistance in radial ply tires  
SO - Society of Automotive Engineers, Technical Paper No. 780258  
IT - energy conservation; energy conversion; thermal measurements; tires
13. AU - DeRaad, L.W.  
TI - The influence of road surface texture on tire rolling resistance  
SO - Society of Automotive Engineers, Technical Paper No. 780257  
IT - roads; tires
14. AU - Viergutz, O.J.; Wakeley, H.G.; Dowers, L.  
TI - Automobile in-use tire inflation survey  
SO - Society of Automotive Engineers, Technical Paper No. 780256  
IT - tires; safety; maintainability; field tests
15. AU - Smith, J.R.; Tracy, J.C.; Potter, D.S.  
TI - Tire rolling resistance - a speed dependent contribution  
SO - Society of Automotive Engineers, Technical Paper No. 780255  
IT - friction; tires
16. AU - McGrew, J.F.  
TI - A multimode vehicle performance instrument  
SO - Society of Automotive Engineers, Technical Paper No. 780149  
IT - accelerometers; vehicle performance tests

17. AU - Faherty, K.F.  
TI - Civil engineering considerations in earth moving  
SO - Society of Automotive Engineers, Technical Paper No. 770523  
IT - construction equipment operation; cost analysis; vehicle performance; tires
18. AU - Shepherd, P.D.  
TI - The effect of a tire's reinforcing material on rolling resistance  
SO - Society of Automotive Engineers, Technical Paper No. 770333  
IT - fuel consumption; tires; composite materials
19. AU - Dayman, B., Jr.  
TI - Tire rolling resistance measurements from coast-down tests  
SO - Society of Automotive Engineers, Technical Paper No. 760153  
IT - tires; vehicle performance tests
20. AU - Glemming, D.A.; Bowers, P.A.  
TI - Tire testing for rolling resistance and fuel economy  
SO - Society of Automotive Engineers, Technical Paper No. 750457  
IT - tires; ride evaluation; fuel consumption
21. AU - Thomas, P.R.; Till, R.H.  
TI - A simplified method for the measurement of vehicular rolling resistance  
SO - Society of Automotive Engineers, Technical Paper No. 740423.  
Also published in SAE Transactions, Vol. 83, 1974  
IT - accelerometers; friction; instrumentation; test equipment
22. AU - Oblizajek, K.L.; Lippmann, S.A.  
TI - Predicting the tread wear of nondriven front axle tires from laboratory measurements  
SO - Society of Automotive Engineers, Technical Paper No. 740073  
IT - tires; rubber-synthetic rubber; tests; front wheel drive
23. AU - White, R.A.; Korst, H.H.  
TI - The determination of vehicle drag contributions from coast-down tests  
SO - Society of Automotive Engineers, Technical Paper No. 720099.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - aerodynamics; mathematical analysis; tests; tires; vehicle performance tests; wind tunnel testing
24. AU - Floyd, C.W.  
TI - Power loss testing of passenger tires  
SO - Society of Automotive Engineers, Technical Paper No. 710576  
IT - tires
25. AU - Elliott, D.R.; Klamp, W.K.; Kraemer, W.E.  
TI - Passenger tire power consumption  
SO - Society of Automotive Engineers, Technical Paper No. 710575.

Also published in SAE Transactions, Vol. 80, 1971  
IT - tires

26. AU - McHenry, R.R.  
TI - Research in automobile dynamics - a computer simulation of general three-dimensional motions  
SO - Society of Automotive Engineers, Technical Paper No. 710361.  
Also published in SAE Transactions, vol. 80, 1971  
IT - brakes; computer simulation; suspension systems; tires; vehicle dynamics
27. AU - Curtiss, W.W.  
TI - Low power loss tires  
SO - Society of Automotive Engineers, Technical Paper No. 690108  
IT - tires
28. AU - Walter, J.D.; Conant, F.S.  
TI - Energy losses in tires  
OS - Firestone Tire and Rubber Company  
SO - Tire Science and Technology, Vol. 2, No. 4., Nov 1974, p 235-260
29. AU - Yong, R.N.; Osler, J.C.  
TI - On the analysis of soil deformation under a moving rigid wheel  
SO - McGill University, Montreal, Quebec, Canada, Report No. D, 1966, 18 p
30. AU - Smith, J.L.  
TI - Effects of tread pattern on the surface traction of terra-tires  
SO - Army Waterways Experimental Station, Misc-Pap 27, Oct 1964, p 1967
31. AU - Lewandowski, J.  
TI - The problem of testing and evaluating the rolling resistance of automobile tires  
SO - Wright Patterson Air Force Base, Foreign Tech Div, Jul 1971, 22 p
32. AU - Gusakov, I.; Tapia, G.A.; Bogdan, L.  
TI - Equilibrium and transient rolling resistance of truck tires measured on calspan's tire research facility  
OS - Calspan Corporation, P.O. Box 235, Buffalo, NY, Washington, DC  
SO - Report number: CALSPAN-ZM-5947-T-2, DOT-HS-803-812, PB-292289/6ST, Final Rept. Jan 1979, 137 p
33. AU - Schulze, K.H.; Dames, J.  
TI - Treatments to improve the skidding resistance of existing bituminous surfacings  
OS - Technical University of Berlin, West Germany

- SO - Forschung Strassenbau und Strassenverkehrstechnik N244 Monog Ser, 1977, 48 p
34. AU - Yurko, J.  
 TI - The effect of wheel alignment on rolling resistance - a literature search and analysis. Technical Support Report  
 SO - Environmental Protection Agency, Standards Development and Support Branch, Ann Arbor, MI, Reprot Number LDTP-78-12, PB-286794/3ST, Jul 1978, 13 p
  35. AU - Høbercom, G.E., Jr.  
 TI - Tire hydroplaning (A bibliography with abstracts)  
 SO - Aug 1978 Bibliography, NTIS/PS-78/0776/1ST, 1978, 127 p
  36. TI - Tire rolling losses and fuel economy — an R and D Planning Workshop, 1977  
 SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, 1977, 202 p
  37. AU - Phelps, R.E.; Mingle, J.G.  
 TI - Pavement and tire rolling resistance coefficients for vehicle energy prediction  
 SO - Oregon State University, 1977, p 123-132
  38. AU - Korst, H.H.; Funfsinn, M.A.  
 TI - Determination of effective rolling resistance by coastdown experiments on smooth and rough roads  
 SO - Illinois University, Urbana, 1977, p 133-141
  39. AU - Tanner, J.A.; Stubbs, S.M.  
 TI - Behavior of aircraft antiskid braking systems on dry and wet runway surfaces: a Slip-Ratio-Controlled System with ground speed reference from unbraked nose wheel  
 OS - Langley Research Center, National Aeronautics and Space Administration, Langley Station, VA  
 SO - Report Number NASA-TN-D-8455, N77-33150/2ST
  40. AU - Schuring, D.J.; Kunkel, D.  
 TI - Rolling resistance of truck tires as measured under equilibrium and transient conditions on Calspan's Tire Research Facility  
 OS - Calspan Corp., Buffalo, NY, Office of the Gusakov, I.  
 SO - Report Number CALSPAN-ZM-5947-T, DOT-TST-78-1, PB-274863/OST, Oct 1977, 212 p
  41. AU - Adams, G.H.  
 TI - Tire hydroplaning (A bibliography with abstracts)  
 SO - NTIS/PS-77/0732/6ST, Sep 1977, 108 p
  42. AU - Veith, A.G.  
 TI - Tire wet traction performance; the influence of tread pattern

- OS - B.F. Goodrich Company  
SO - Transportation Research Record, N621 Proceeding, p 113-125
43. AU - Bergman, W.  
TI - Skid resistance properties of tires and their influence on vehicle control  
OS - Ford Motor Company  
SO - Transportation Research Record, N621 Proceeding, 1976, p 8-18
44. AU - Gusakov, I.  
TI - Measuring skid resistance of passenger car tires on an indoor facility  
OS - Calspan Corporation  
SO - Transportation Research Record, N621 Proceeding, 1976, p 55-66
45. AU - Elsenaar, P.M.W.; Reichert, J.; Sautery, R.  
TI - Pavement characteristics and skid resistance  
OS - Department of State Road, Netherlands, Road Research Centre, Belgium, Electronics and Power  
SO - Transportation Research Record, N622, 1976, p 1-25
46. AU - Shupe, D.S.  
TI - Overview - energy and the automobile  
SO - American Society of Mechanical Engineers, 345 East 47th Street, NY, ASME 77-RC-5, May 1977, 11 p
47. AU - Liles, A.W.; Fetterman, G.P.  
TI - Selection of driving cycles for electric vehicles of the 1990's  
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, Sep 1976, p 282-289, SAE 76065
48. AU - Clark, S.K.; Loo, M.  
TI - Temperature effects on rolling resistance of pneumatic tires  
OS - Michigan Univ., Ann Arbor, Transportation Systems, PB-263622, Apr 1976, 24 p
49. AU - Bobo, S.N.  
TI - Akron, Ohio on June 1976  
SO - Transportation Systems Center, 55 Broadway, Cambridge, MA, Washington, DC, PB-263225/5ST, Jul 1976, 88 p
50. AU - Clark, S.K.  
TI - Rolling resistance forces in pneumatic tires  
SO - Michigan Univ., Ann Arbor, Report Number UMICH-013662-2-I, DOT/TST-76/74, PB-262527/5ST, Jan 1976, 35 p
51. AU - Clark, S.K.; Dodge, R.N.  
TI - The influence of tire geometry on the rolling efficiency of commercial vehicle tires  
SO - Michigan Univ., Ann Arbor, Report Number UMICH-013622-4-T, DOT-TST-76T/25, PB-262348/6-ST, Sep 1976, 63 p

52. AU - Crum, W.B.  
 TI - Road and dynamometer tire power dissipation  
 SO - Society of Automotive Engineers, 400 Commonwealth Drive,  
 Warrendale, PA, Report Number SAE 750955, Oct 1975, 11 p
53. AU - Radtke, R.; Kapellen, D.; Frank, A.; Beachley, N.  
 TI - Simulation of automobile mileage and emissions by use of  
 dynamic models and real component data  
 OS - University of Wisconsin, Madison, WI, 1976, Contract Number  
 DOT-OS-30112
54. AU - Schuring, D.J.  
 TI - Rolling resistance of tires measured under transient and  
 equilibrium conditions on Calspan's Tire Research Facility  
 OS - Calspan Corporation, P.O. Box 235, Buffalo, NY, Cambridge, MA,  
 PB-251932, Mar 1976, Final Report, 245 p
55. AU - Schuring, D.J.  
 TI - Energy loss of pneumatic tires under freely rolling, braking,  
 and driving conditions  
 SO - Tire Science and Technology, Vol. 4, No. 1, Feb 1976, p 3-15
56. AU - Cohn, C.E.  
 TI - Improved fuel economy for automobiles  
 OS - Argonne National Laboratories  
 SO - Technology Review, Vol. 77, No. 4, Feb 1975, p 44-52
57. TI - To select a new scraper - go back to basics  
 SO - Roads and Streets, Vol. 118, No. 3, Mar 1975, p 120-122
58. AU - Bernard, M.  
 TI - New information on resistance to forward motion at very high  
 speed (research with the TGV.001)  
 SO - Revue Generale des Chemins de Fer, Vol. 93, Oct 1974, p  
 584-590
59. TI - Improving automobile fuel consumption  
 SO - Automotive Engineering, Vol. 84, No. 3, Mar 1975, p 24-26
60. AU - Crum, W.B.; McNall, R.G.  
 TI - Effects of tire rolling resistance on vehicle fuel consumption  
 OS - Ford Motor Company  
 SO - Tire Science and Technology, Vol. 3, No. 1, Feb 1975, p 3-15
61. AU - Spitz, N.; Hussmann, A.W.  
 TI - Contact and displacement in contact area of free rolling tires  
 OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY  
 SO - Report number SAE 710626, 1971, 8 p

62. AU - Blake, S.E.  
TI - Stretching the gasoline gallon. An engineering approach  
SO - Transportation Research News, N57, Dec 1974, p 11-15
63. AU - Clark, S.K.; Dodge, R.N.; Ganter, R.J.; Luchini, J.R.  
TI - Rolling resistance of pneumatic tires  
SO - Michigan University, Ann Arbor, Interim Report PB-242985, May 1975, 74 p
64. AU - Pierce, J.R.  
TI - The Fuel consumption of automobiles  
SO - Scientific American, Vol. 232, No. 1, Jan 1975, p 34-44
65. AU - Dobbins, J.E.  
TI - Evaluation of the Brazilian run-flat tire  
SO - Nevada Automotive Test Center, Carson City, NV, Warren, MI, Final Report ADA-001698, Jul 1974, 35 p
66. AU - Boehm, F.  
TI - Comfort, vibration and stress of the belted tire (chain model used to compute the load-depending parameters of elastic foundation of belt on carcass)  
OS - Technical Univ. of Berlin, Federal Republic of Germany, International Assn. of Vehicle System Dynamics  
SO - 6th IAVSD-IUTAM Symposium on the Dynamics of Vehicles on Roads and Tracks, Sep 3-7, 1979, Technische Univ, Berlin, Berlin, Federal Republic of Germany
67. AU - Lou, A.Y.C.  
TI - Relationship of tire rolling resistance to the viscoelastic properties of the tread rubber  
OS - Firestone Tire & Rubber Co., Central Research Labs., 1200 Firestone Pkwy., Akron, OH  
SO - Tire Science and Technology, Vol. 6, No. 3, Aug 1978, p 176-188
68. AU - Clark, S.K.  
TI - Rolling resistance of pneumatic tires (general expression for rolling resistance compared with measured data)  
OS - Dept. of Applied Mechanics and Eng. Science, Univ. of Michigan, Ann Arbor, MI  
SO - Tire Science and Technology, Vol. 6, No. 3, Aug 1978, p 163-175
69. TI - Fighting rolling resistance in tires  
SO - Machine Design, Vol. 51, No. 1, Jan 11, 1979, p 30-34
70. AU - Mamoun, M.M.  
TI - On the theories of friction of solids. III. Analytical methods to determine frictional resistance  
OS - School of Mech. and Aerospace Engng., Oklahoma State Univ, Stillwater, OK



- SO - 1975 Design Engineering Conference held Apr 21-24 1975, NY
71. AU - Schuring, D.J.; Bird, K.D.; Martin, J.F.  
TI - Power requirements for tires and fuel economy  
OS - Calspan Corp., Buffalo, NY  
SO - Tire Science and Technology, Vol. 2, No. 4, Nov 1974, p 261-285
72. AU - Harvey, A.F.  
TI - Tyres for forklift trucks  
OS - Lansing Bagnall Ltd., Basingstoke, England, Instn. Mech. Engrs.  
SO - Tyres for Mechanical Handling Equipment, 1974, London, England
73. AU - Johnson, K.L.; White, I.C.  
TI - Rolling resistance measurements at high loads  
SO - Int. J. Mech. Sci. (GB), Vol. 16, No. 12, Dec 1974, p. 939-943

Chapter III - Traction.

### CHAPTER III

1. AU - Harrison, W.L.  
TI - Shallow snow performance of wheeled vehicles  
SO - International Conference of the International Society for Terrain-Vehicle Systems, 5th, Detroit, MI, June 2-6, 1975, Proceedings, Vol. 2, Report Number MP 1130, Hoboken, NJ, 1976, p 589-614  
LA - Eng  
IT - snow compaction; analysis-mathematics; vehicles; snow compression; traction; loads-forces; snow mechanics; rubber snow friction
2. AU - Dibbern, J.S.  
TI - First attempts at motor transport in Antarctica, 1907-1911  
SO - Polar Record, Sep 1976-18(114), p 259-267  
LA - Eng  
IT - vehicles; transportation-oversnow; manhauling
3. AU - Neill, A.H., Jr.; Kondo, A.; Hinch, J.; Boyd, P.L.  
TI - Traction generating potential of snow tires vs. regular tread tires on ice, snow, wet, and dry surfaces  
SO - U.S. National Highway Traffic Safety Administration. Technical report, Jan 1978-DOT HS-803 234, 42 p  
LA - Eng  
IT - rubber ice friction; rubber snow friction; tires; traction
4. TI - Industrial Vehicles Corporation's "Bolzano Series" features integral traction, high maneuverability  
OTI - La "Gamma Bolzano" dell'Iveco: veicoli a trazione integrale ad elevata manovrabilita  
SO - Strade e traffico, Nov-Dec 1977-No. 262, p 4-7  
LA - Ita  
IT - winter maintenance; road maintenance; snow removal equipment; all terrain vehicles
5. AU - Gerdel, R.W.  
TI - Some research problems in snow mechanics and thermodynamics  
SO - Western Snow Conference, Sacramento, CA, April 1952. Proceedings, Report Number MP 785, p 41-44  
LA - Eng  
IT - research projects; snow strength; snow mechanics; snow thermal properties; thermodynamic properties
6. AU - Hanamoto, B.  
TI - Effects of variation in drawbar hitch location on vehicle performance  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 237, Sep 1975, 16 p  
LA - Eng  
IT - all terrain vehicles; snow cover effect; noncohesive soils

7. AU - Thomas, M.W.  
TI - Ground transportation for polar operations--16-wheel low-ground-pressure vehicle (LGPV-16)  
SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory. Technical note, Jan 1976-N-1422, 29 p  
LA - Eng  
IT - vehicles; transportation-oversnow; Antarctica McMurdo Station; snow vehicles; cold weather tests; tires; design criteria
8. AU - Hanamoto, B.  
TI - Traction aid for wheeled vehicles  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 232, July 1975, 9 p  
LA - Eng  
IT - vehicle wheels; tracked vehicles; trafficiability
9. AU - Volkov, A.E.; IAnkin, V.M.; Tsutsoev, V.I.  
TI - Operating tractors in freezing weather  
OTI - Osobennosti ekspluatatsii traktora zimoi  
SO - Moscow, Kolos, 1975, 128 p  
LA - Rus  
IT - cold weather operation; tractors; trafficiability; snow removal; traction
10. AU - Wismer, R.D.; Freitag, D.R.; Schafer, R.L.  
TI - Application of similitude to soil-machine systems  
SO - Prepared for presentation at the Sixth Seminar on the Similitude of Soil Machine Systems, Feb. 4-5, 1975, USDA National Tillage Machinery Laboratory. Report number MP 829, St. Joseph, MI, American Society of Agricultural Engineers, 1975, 37 p  
LA - Eng  
IT - models; all terrain vehicles; tires; traction; earth handling equipment; soil structure
11. AU - Browne, A.L.  
TI - Traction of pneumatic tires on snow  
SO - General Motors Corporation. Research publication GMR-1346, 1973, 115 p  
LA - Eng  
IT - analysis-mathematics; rubbersnow friction; tires; traction
12. TI - Traction tests measure pulling ability  
SO - American Highways, Oct 1973-52(4), p 22-23  
LA - Eng  
IT - tires; road icing; sliding; traction
13. AU - Valiakhmetov, D.G.; Doskalovich, I.N.; Pavlov, V.N.  
TI - Traction and adhesive properties of tractors on snow  
OTI - Tiagovo-stsepye kachestva gusenichnykh traktorov pri rabote na snegu

- SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1973-No. 1, p 28-29  
 LA - Rus  
 IT - tractors, metal snow friction; cold weather performance
14. AU - Pozdeev, E.A.  
 TI - Increase in the adhesion-traction properties of tractors in winter  
 OTI - Povyshenie tiagovo-stsepykh kachestv traktorov pri rabote zimoi  
 SO - Lesnaia promyshlennost', Oct 1972-No. 10, p 28-29  
 LA - Rus  
 IT - tractors; cold weather performance; tracked vehicles; metal snow friction
15. AU - Weiss, S.J.  
 TI - Traction tests in snow at the Sierra Test Site, February-March 1952  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, March 1952-N-107, 5 p  
 LA - Eng  
 IT - tests; performance; snow strength; tracked vehicles; trafficability; traction
16. AU - Horne, W.B.; Sparks, H.C.  
 TI - New methods for rating, predicting, and alleviating the slipperiness of airport runways  
 OS - American Association of Airport Executives. Northeast Chapter  
 SO - International Aviation Snow Symposium, April 1970-4th, 15 p  
 LA - Eng  
 IT - ice conditions; snow cover effect; slush; aircraft landing areas; friction; coefficients
17. AU - Wehner, B.  
 TI - Studded tires and traction  
 OTI - (Spikesreifen und Griffigkeit)  
 SO - Strasse und Autobahn, Jan 1971-22(1), p 5-10  
 LA - Ger  
 IT - tires; traction; studs; surface roughness
18. AU - Kabakov, N.S.; Chursin, L.I.  
 TI - Pull indices of a six-wheel-drive tractor-model under winter conditions  
 OTI - (Tiagovye pokazateli traktora-maketa s tremia vedushchimi mostami v zimnikh usloviakh)  
 SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1970-No. 11, p 39-40  
 LA - Rus  
 IT - cold weather operation; rubber snow friction; rubber ice friction; vehicles; traction

19. TI - Combat Traction Testing within Alaskan Air Command. Final report  
OS - U.S. Air Force. Alaskan Air Command. Civil Engineering Research Division  
SO - April 13, 1970, 7 p  
LA - Eng  
IT - aircraft landing areas; skid resistance runways
20. AU - Mellor, M.  
TI - Oversnow transport  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number M III-A4, Jan 1963, 58 p, plus appends.  
LA - Eng  
IT - design criteria; snow vehicles; crevasse detection
21. AU - Dickinson, W.E.  
TI - New salt blend has good abrasive action and fast ice-melting properties  
SO - Better Roads, March 1969, 39(3), p 29-31  
LA - Eng  
IT - roads; traction; chemical ice prevention; ice removal; salting
22. AU - IAnkin, V.M.  
TI - Tractive-adhesive properties of caterpillar tractors on snow  
OTI - (Tiagovo-stsepye svoistva traktorov pri rabote zimoi)  
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1969-No. 2, p 7-9  
LA - Rus  
IT - snow cover; traction; adhesive strength
23. AU - Shirkov, A.S.; Bugakov, I.U.S.; Trondin, V.P.  
TI - Winter performance of the power transmission and traction systems of DT-75 Tractors  
OTI - (Rabota silovoi peredachi i khodovoi sistemy traktora DT-75 zimoi)  
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1968-No. 3, p 36-38  
LA - Rus  
IT - transportation; vehicles; cold weather operation
24. AU - Wong, J.; Reece, A.R.  
TI - Prediction of rigid wheel performance based on the analysis of soil-wheel stresses. Part I. Performance of driven rigid wheels  
SO - Journal of Terramechanics, 1967 4(1), p 81-98  
LA - Eng  
IT - vehicle wheels; traction; soil trafficability; computer programs; stress analysis
25. AU - Onafeko, O.; Reece, A.R.  
TI - Soil stresses and deformations beneath rigid wheels  
SO - Journal of Terramechanics, 1967 4(1), p 59-80  
LA - Eng

- IT - vehicle wheels; traction; soil trafficability
26. AU - Bekker, M.G.  
TI - Evolution of approach to off-road locomotion  
SO - Journal of Terramechanics, 1967 4(1), p 49-57  
LA - Eng  
IT - vehicles; traction
27. AU - Bedi, G.S.; Lake, W.H.  
TI - Evolution of the new Ford light truck four wheel drive independent front suspension  
SO - Society of Automotive Engineers, Technical Paper No. 791035  
IT - suspension systems; truck design; four wheel drive; fuel economy; frames
28. AU - Kemper, Y.  
TI - A high power density traction drive  
SO - Society of Automotive Engineers, Technical Paper No. 790849  
IT - automatic transmissions; friction drives; transmissions; variable-ratio transmissions; speed control
29. AU - Dull, D.; Harlow, S.; Krutz, G.  
TI - Increase traction with hydraulic assist drive  
SO - Society of Automotive Engineers, Technical Paper No. 790813  
IT - agricultural machinery; auxiliary power; four wheel drive; front wheel drive; hydrostatic transmissions
30. AU - Taylor, J.H.; Burt, E.C.; Bailey, A.C.  
TI - Tire options and consequences for four-wheel drive tractors  
SO - Society of Automotive Engineers, Technical Paper No. 790526  
IT - four wheel drive; tires; wheels; mobility research; agricultural machinery
31. AU - Morello, L.; Piccolo, R.; Ippolito, L.  
TI - Fiat Research Center hybrid vehicle prototype  
SO - Society of Automotive Engineers, Technical Paper No. 790014  
IT - computer simulation; electric vehicles; energy conservation; engine controls; fuel economy
32. AU - DeRaad, L.W.  
TI - The influence of road surface texture on tire rolling resistance  
SO - Society of Automotive Engineers, Technical Paper No. 780257  
IT - roads; tires
33. AU - Speyer, A.G.  
TI - Evaluation of various passenger tire constructions for wet traction performance  
SO - Society of Automotive Engineers, Technical Paper No. 780197  
IT - tires

34. AU - Boyd, P.L.; Neill, A.H., Jr.; Hinch, J.  
TI - The use of the mobile tire traction dynamometer in research  
SO - Society of Automotive Engineers, Technical Paper No. 780196  
IT - skid resistance; test equipment; tires; dynamometers
35. AU - Bader, C.; Stephan, W.  
TI - Electric vehicles in Germany-present and future  
SO - Society of Automotive Engineers, Technical Paper No. 780087  
IT - alternative powerplants; electric vehicles; hybrid vehicles
36. AU - Wallace, F.J.; Winkler, G.; Bowns, D.E.  
TI - Multi-variable control for engine transmission systems with infinitely variable ratios  
SO - Society of Automotive Engineers, Technical Paper No. 770752  
IT - transmissions
37. AU - Dickinson, T.W.  
TI - Development of a variable speed transmission for light tractors  
SO - Society of Automotive Engineers, Technical Paper No. 770749  
IT - garden tractors; transmissions
38. AU - Knight, R.J.; Randle, J.N.  
TI - A discussion of alternative sports car concepts  
SO - Society of Automotive Engineers, Technical Paper No. 770433  
IT - sports cars
39. AU - Footit, J.E.  
TI - Rating tire traction effectiveness in the winter environment  
SO - Society of Automotive Engineers, Technical Paper No. 770279  
IT - tires; test facilities
40. AU - Browne, A.L.; Whicker, D.  
TI - Design of tire tread elements for optimum thin film wet traction  
SO - Society of Automotive Engineers, Technical Paper No. 770278  
IT - tires; computer simulation
41. AU - Rohde, S.M.  
TI - On the combined effects of tread element flexibility and pavement microtexture on thin film wet traction  
SO - Society of Automotive Engineers, Technical Paper No. 770277  
IT - tires; highways; mathematical analysis
42. AU - Taulu, D.  
TI - FMC Bolens 1460-a new garden tractor  
SO - Society of Automotive Engineers, Technical Paper No. 760704  
IT - design; engine cooling; garden tractors; lawnmowers; manual transmissions
43. AU - Bohnert, L.F.; Kenady, T.D.  
TI - A comparative analysis of radial and bias R-1 drive wheel tractor tires



- SO - Society of Automotive Engineers, Technical Paper No. 751185  
IT - tires; fuel consumption; vibration; product engineering
44. AU - Jones, T.O.; Schlax, T.R.; Colling, R.L.  
TI - Application of microprocessors to the automobile  
SO - Society of Automotive Engineers, Publication No. SP-393  
IT - electric equipment-electronic; design; safety devices; computer applications
45. AU - Ervin, R.D.; Fancher, P.S.  
TI - Preliminary measurements of the longitudinal traction properties of truck tires  
SO - Society of Automotive Engineers, Technical Paper No. 741139  
IT - tires; test equipment; truck operation-truck performance; dynamometers
46. AU - Bickerstaff, D.J.; Hartley, G.  
TI - Light truck tire traction properties and their effect on braking performance  
SO - Society of Automotive Engineers, Technical Paper No. 741137. Also published in SAE Transactions, Vol. 83, 1974  
IT - tires; brakes; truck operation-truck performance
47. AU - Fancher, P.S.; Bernard, J.E.; Emery, L.H.  
TI - The effects of tire-in-use factors on passenger car performance  
SO - Society of Automotive Engineers, Technical Paper No. 741107  
IT - tires; passenger car performance; steering; wear
48. AU - Peterson, K.G.; Smithson, F.D.; Hill, F.W., Jr.  
TI - General Motors Tire Performance Criteria (TPC) Specification System  
SO - Society of Automotive Engineers, Technical Paper No. 741103  
IT - tires; wheels; rubber-synthetic rubber
49. AU - Lindhorst, P.K.; Andreas, J.C.  
TI - Design and application of traction motors for electric vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 740729  
IT - electric equipment-electronic; electric drives; electric propulsion; electric vehicles
50. AU - Horne, W.B.  
TI - Elements affecting runway traction  
SO - Society of Automotive Engineers, Technical Paper No. 740496. Also published in SAE Transactions, Vol. 83, 1974  
IT - runways; brakes; rubber-synthetic rubber; surface finish
51. AU - Zillman, R.L.  
TI - The Diesel Electric L-700 - A new concept in front-end loaders  
SO - Society of Automotive Engineers, Technical Paper No. 730749  
IT - construction equipment design; electric vehicles

52. AU - Bergman, W.; Crum, W.B.  
TI - New concepts of tire wear measurement and analysis  
SO - Society of Automotive Engineers, Technical Paper No. 730615.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - surfaces; tires; wear
53. AU - Peterson, K.G.; Rasmussen, R.E.  
TI - Mechanical properties of radial tires  
SO - Society of Automotive Engineers, Technical Paper No. 730500.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - noise; ride evaluation; tires; vehicle dynamics; vibration
54. AU - Petalski, N.; Davis, L.  
TI - Vcon 3006 truck-extending tire capacity through innovation  
SO - Society of Automotive Engineers, Technical Paper No. 730285.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - suspension systems; tires; truck operation-truck performance
55. AU - Kienle, R.N.  
TI - The problem of interpretation of tire skid test results - the interaction of variations in speed, water depth, and surface with tire coefficients  
SO - Society of Automotive Engineers, Technical Paper No. 730281  
IT - friction; tires
56. AU - Tielking, J.T.; Fancher, P.S.; Wild, R.E.  
TI - Mechanical properties of truck tires  
SO - Society of Automotive Engineers, Technical Paper No. 730183  
IT - tires
57. AU - Beauregard, C.; McNall, R.G.  
TI - Tire cornering/traction test methods  
SO - Society of Automotive Engineers, Technical Paper No. 730147  
IT - test equipment; tires; trailers
58. AU - Schuring, D.  
TI - Rating traction and wear - a review  
SO - Society of Automotive Engineers, Technical Paper No. 730145.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - tires; wear
59. AU - Hoenes, W.W.  
TI - A shiftable controlled traction differential for heavy duty trucks  
SO - Society of Automotive Engineers, Technical Paper No. 720905  
IT - differential gears
60. AU - Chocholek, S.E.; Ferbitz, R.C.  
TI - Restrictive differentials  
SO - Society of Automotive Engineers, Technical Paper No. 720903  
IT - differential gears

61. AU - Medley, J.  
TI - Progress in the art of coal hauling  
SO - Society of Automotive Engineers, Technical Paper No. 720797  
IT - mining equipment
62. AU - Herbst, G.D.  
TI - Design of the Hyster C610 self-propelled vibratory compactor  
SO - Society of Automotive Engineers, Technical Paper No. 720771  
IT - construction equipment design; hydrostatic transmissions
63. AU - Satake, M.; Mukai, T.  
TI - Traction and flotation characteristics of earthmover tires on soft soil  
SO - Society of Automotive Engineers, Technical Paper No. 720743.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - soil mechanics; tires
64. AU - Allen, C.V.; Smithson, F.D.  
TI - Specialized road surfaces for traction test purposes  
SO - Society of Automotive Engineers, Technical Paper No. 720469.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - friction; roads; surfaces; test facilities
65. AU - Davis, L.  
TI - Vcon 3006 - A new concept in large mining trucks  
SO - Society of Automotive Engineers, Technical Paper No. 720376  
IT - mining equipment
66. AU - Kelley, D.M.  
TI - Euclid Turbine-Electric Rear Dump  
SO - Society of Automotive Engineers, Technical Paper No. 720375  
IT - electric vehicles; mining equipment; turbine trucks
67. AU - Takaoka, I.; Umotor, I.; Kawakatsu, S.  
TI - Daihatsu S-37 Mini Cabover Electric Truck and its electric equipment  
SO - Society of Automotive Engineers, Technical Paper No. 720189  
IT - electric vehicles
68. AU - Kienle, R.N.; Grosch, K.A.; Scott, C.E.  
TI - Material properties effecting traction and wear of passenger tires  
SO - Society of Automotive Engineers, Technical Paper No. 720161  
IT - friction; tires; wear
69. AU - Berman, B.; Gelb, G.H.  
TI - Electric car drives - design consideration  
SO - Society of Automotive Engineers, Technical Paper No. 720111  
IT - electric drives; electric vehicles
70. AU - Bergman, W.; Clemett, H.; Harold, R.; Sheth, N.J.  
TI - Tire traction measurement on the road and in the laboratory

- SO - Society of Automotive Engineers, Technical Paper No. 710630.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - tires
71. AU - Moran, J.H.; Grimm, R.A.  
TI - Max Trac - wheel spin control by computer  
SO - Society of Automotive Engineers, Technical Paper No. 710612  
IT - computer applications; wheels
72. AU - Haas, R.H.; Manwaring, R.C.  
TI - Development of a limited slip differential  
SO - Society of Automotive Engineers, Technical Paper No. 710610.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - axles, differential gears
73. AU - Meyer, W.E.  
TI - What makes pavements slippery?  
SO - Society of Automotive Engineers, Technical Paper No. 710572  
IT - friction; highways; skid resistance; surfaces
74. AU - Hainline, B.C.; Sellereite, B.K.; Swanke, K.V.  
TI - Powered wheels - a concept for parking and taxiing of commercial transport airplanes  
SO - Society of Automotive Engineers, Technical Paper No. 710446.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - landing gear
75. AU - Cortese, A.D.; Rockafellow, C.S.  
TI - General Motors proving ground tire cornering test vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 710092.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - test equipment; tires
76. AU - Smithson, F.D.; Herzegh, F.H.  
TI - Investigation of tire-road traction properties  
SO - Society of Automotive Engineers, Technical Paper No. 710091.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - roads; tires
77. AU - Spelman, R.H.; Tarpinian, H.D.; Johnson, D.E.; Campbell, K.L.;  
DISCUSSED BY: Clemett, H.R.; Smithson, F.D.  
TI - SAE study-wet pavement braking traction  
SO - Society of Automotive Engineers, Technical Paper No. 700462.  
Also published in SAE Transactions, Vol. 79, 1970  
IT - tests; tires
78. AU - Dugoff, H.; Fancher, P.S.; Segal, L.  
TI - An analysis of tire traction properties and their influence on vehicle dynamic performance  
SO - Society of Automotive Engineers, Proceeding P-30. Also published in SAE Transactions, Vol. 79, 1970  
IT - computer simulation; tires

79. AU - Hales, F.D.; Barter, N.F.  
TI - Traction effects while cornering  
SO - Society of Automotive Engineers, Proceedings P-30  
IT - steering; vehicle directional control
80. AU - Odier, J.  
TI - Road-holding: braking and traction  
SO - Society of Automotive Engineers, Proceedings No. P-30  
IT - brakes; vehicle directional control
81. AU - Jones, C.S., Jr.; Doran, B.J.; Nola, F.J.  
TI - Traction drive system design considerations for a lunar roving vehicle  
SO - Society of Automobile Engineers, Technical Paper No. 700023.  
Also published in SAE Transactions, Vol. 79, 1970  
IT - electric drives; lunar vehicles
82. AU - Panny, W.P.; Riddle, A.K.; Discussed by: Robinson, T.E.; Brumbaugh, G.; Chew, N.; Decker, R.; Sullivan, J.T.  
TI - The power unit for triples; A C.O.E. 4 x 4 Tractor  
SO - Society of Automotive Engineers, Technical Paper No. 690550.  
Also published in SAE Transactions, Vol. 78, 1969  
IT - axles; truck trailers; truck tractors
83. AU - Dobie, W.J.  
TI - Problems of obtaining multiple optima in passenger car tire performance  
SO - Society of Automotive Engineers, Technical Paper No. 690511  
IT - tires
84. AU - Hutchinson, J.F.; Becker, H.D.  
TI - Determination of passenger tire-performance levels-traction  
SO - Society of Automotive Engineers, Technical Paper No. 690510  
IT - tests; tires
85. AU - MacDuff, S.I.; Rivard, J.G.; McGlinn, E.J.  
TI - Technological development directing the path to fully automatic vehicle control systems  
SO - Society of Automotive Engineers, Technical Paper No. 690260  
IT - automatic control; brakes; steering; vehicle directional control
86. AU - Gelb, G.H.; Richardson, N.A.; Wang, T.C.; DeWolf, R.S.  
TI - Design and performance characteristics of hybrid vehicle power train  
SO - Society of Automotive Engineers, Technical Paper No. 690169  
IT - batteries; computer simulation; electric vehicles; vehicle design
87. AU - Wheeler, C.M.  
TI - Motors for electric vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 690126

IT - electric vehicles

88. AU - Carr, R.L.  
TI - Performance characteristics of low aspect radial tires  
SO - Society of Automotive Engineers, Technical Paper No. 690107  
IT - tires
89. AU - Wismer, R.D.; Wegscheid, E.L.; Luth, H.J.; Romig, B.E.  
TI - Energy application in tillage and earthmoving  
SO - Society of Automotive Engineers, Technical Paper No. 680611.  
Also published in SAE Transactions, Vol. 77, 1968  
IT - agricultural machinery; construction equipment design;  
friction; vibration
90. AU - Henry, E.K.  
TI - Tractor tire treads - designed to make the tractor go  
SO - Society of Automotive Engineers, Technical Paper No. 680562  
IT - tires
91. AU - Kaye, M.C.; Discussed by: Self, K.W.  
TI - Investigation of intercity highway truck drive traction  
SO - Society of Automotive Engineers, Technical Paper No. 680548.  
Also published in SAE Transactions, Vol. 77, 1968  
IT - truck design; truck trailers
92. AU - Sapp, T.  
TI - Ice and snow tire traction  
SO - Society of Automotive Engineers, Technical Paper No. 680139  
IT - friction; tires
93. AU - Kelley, J.D., Jr.  
TI - Factors affecting passenger tire traction on the wet road  
SO - Society of Automotive Engineers, Technical Paper No. 680138.  
Also published in SAE Transactions, Vol. 77, 1968  
IT - roads; tires
94. AU - Davisson, J.A.  
TI - Basic test methods for evaluating tire traction  
SO - Society of Automotive Engineers, Technical Paper No. 680136.  
Also published in SAE Transactions, Vol. 77, 1968  
IT - brakes; tests; tires
95. AU - Carr, C.I.  
TI - Definition of problems in tire skid and traction  
SO - Society of Automotive Engineers, Technical Paper No. 680135  
IT - roads; tires; vehicle directional control; vehicle safety
96. AU - Arnold, W.A.  
TI - Hydraulic drives in forage harvesting  
SO - Society of Automotive Engineers, Technical Paper No. 670741  
IT - agricultural machinery; hydraulic drives

97. AU - Carlson, E.C.  
TI - International 3800 Backhoe-Loader-Tractor  
SO - Society of Automotive Engineers, Technical Paper No. 670716  
IT - construction equipment design
98. AU - Klamp, W.K.; Milligan, W.J.  
TI - Performance characteristics - radial ply tires  
SO - Society of Automotive Engineers, Technical Paper No. 670471  
IT - tires
99. AU - DeVinney, W.E.  
TI - Factors affecting tire traction  
SO - Society of Automotive Engineers, Technical Paper No. 670461.  
Also published in SAE Transactions, Vol. 76  
IT - tires
100. AU - Agarwal, P.D.; Levy, I.M.  
TI - High performance A-C electric drive system  
SO - Society of Automotive Engineers, Technical Paper No. 670178  
IT - electric drives; electric vehicles; fuel cells
101. AU - Wallace, F.J.; Discussed by: Cheklich, G.E.  
TI - Differential compound engine  
SO - Society of Automotive Engineers, Technical Paper No. 670110.  
Also published in SAE Transactions, Vol. 76  
IT - compound engines; diesel engines; turbine engines
102. AU - Kronogard, S.O.  
TI - Turbine transmission systems for automotive and industrial traction applications  
SO - Society of Automotive Engineers, Technical Paper No. 660762.  
Also published in SAE Transactions, Vol. 75  
IT - power transmission; reciprocating engines; turbine engines
103. AU - Wallace, F.J.; Wright, E.J.; Campbell, J.S.  
TI - Future development of free piston gasifier turbine combinations for vehicle traction  
SO - Society of Automotive Engineers, Technical Paper No. 660132  
IT - turbine engines; free piston engines; turbocharging-turbochargers; compound engines; diesel engines
104. AU - Dreyer, R.E.  
TI - Development of the 1200 Traction King  
SO - Society of Automotive Engineers, Technical Paper No. 650679  
IT - agricultural machinery; manual transmissions; steering; assembling
105. AU - Bergren, H.E.  
TI - Application of hydrostatic traction drives to garden tractors  
SO - Society of Automotive Engineers, Technical Paper No. 650674  
IT - hydrostatic transmissions; garden tractors

106. AU - Gyenes, L.; Williams, T.; Simmons, I.C.  
TI - Power requirements of articulated vehicles under cornering conditions  
SO - Transport and Road Research Lab., Crowthorne, England  
Report Number TRRL-SUPPLEMENTARY-484
107. AU - Boyd, P.L.; Neill, A.H., Jr.; Hinch, J.A.  
TI - Truck Tire Cornering and Braking Traction Study  
SO - ENSCO, Inc., Springfield, VA. National Highway Traffic Safety Administration, Washington, DC. Office of Crash Avoidance. 1979, 75 p, PB 299 437
108. AU - Dowgiallo, E.J., Jr.; Bailey, C.E., Jr.; Snellings, I.R.; Blake, W.H.  
TI - Baseline tests of the Daihatsu EH-S40 Electric Delivery Van  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA, Department of Energy, Washington, DC  
SO - Final technical memo., 1978, ADA 063661
109. AU - Karafiath, L.L.  
TI - Track-soil interaction model for the determination of maximum soil thrust  
OS - Grumman Aerospace Corp., Bethpage, NY, Research Dept.  
SO - Final rept., 1978, ADA 058026
110. AU - Stevens, R.D.; Nicarico, T.J.; McGean, T.J.  
TI - AGT guideway and station technology. Volume 2: weather protection review  
OS - De Leuw, Cather and Co., Chicago, IL. ABAM Engineers, Inc., Tacoma, WA. Urban Mass Transportation Administration, Washington, DC  
SO - Final rept., 1978, PB 281632
111. AU - Kearns, R.W.; Ward, J.F.  
TI - The static force calibration of a skid resistance measuring system  
OS - National Bureau of Standards, Washington, DC. Engineering Mechanics Section. Federal Highway Administration, Washington, DC. Office of Development  
SO - Final rept., 1976, 88 p, PB 27650
112. AU - Thurman, G.R.; Leasure, W.A., Jr.  
TI - Noise and traction characteristics of bias-ply and radial tires for heavy duty trucks  
OS - Department of Transportation, Washington, DC. Office of the Secretary. Michigan Univ., Ann Arbor, MI, Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI  
SO - Final rept., 1977, 137 p, PB 275517
113. AU - Flynn, L.  
TI - Tires



- OS - National Highway Traffic Safety Administration, Washington,  
DC. Technical Services Div.  
SO - Mar 77, 650 p, PB 273270
114. AU - Boyd, P.L.; Walston, W.H., Jr.  
TI - Effect of rate of change of slip on the peak braking  
coefficient of passenger car tires  
OS - National Highway Traffic Safety Administration, Riverdale, MD,  
Safety Research Lab. Maryland Univ., College Park, Dept. of  
Mechanical Engineering  
SO - Technical rept., 1977, 75 p, PB 270934
115. AU - Horne, W.B.  
TI - Nasa diagonal-braked test vehicle evaluation of traction  
characteristics of grooved and ungrooved runway surfaces at Miami  
International Airport, Miami, FL, 8-9 May 1973  
OS - National Aeronautics and Space Administration. Langley  
Research Center, Langley Station, VA  
SO - Report Number: NASA-TM-X-73912, 1977, 53 p, N77-27134
116. AU - Neill, A.H., Jr.; Hinch, J.A.  
TI - A comparison of tire traction test methods: mobile tire  
traction dynamometer vs instrumented passenger car  
OS - National Highway Traffic Safety Administration, Riverdale, MD,  
Safety Research Lab.  
SO - Technical report, 1977, 74 p, PB 266642
117. AU - Ervin, R.D.; Winkler, C.B.; Bernard, J.E.; Gupta, R.K.  
TI - Effects of tire properties on truck and bus handling. Volume  
IV  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
National Highway Traffic Safety Administration, Washington, DC  
SO - Final rept., 28 Jun 74 - 31, Dec 75, Dec 76, 29 p, PB 263881
118. AU - Ervin, R.D.; Winkler, C.B., Bernard, J.E., Gupta, R.K.  
TI - Effects of tire properties on truck and bus handling. Volume  
III, Appendices D, E, F, G  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
National Highway Traffic Safety Administration, Washington, DC  
SO - Final rept., 1976, 167 p, PB 263880
119. AU - Ervin, R.D.; Winkler, C.B.; Bernard, J.E.; Gupta, R.K.  
TI - Effects of tire properties on truck and bus handling.  
Volume II, Appendix C.  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
National Highway Traffic Safety Administration, Washington, DC.  
SO - Final rept., 28 Jun 74 - 31 Dec 75, Dec 76, 497 p, PB 263879
120. AU - Ervin, R.D.; Winkler, C.B.; Bernard, J.E.; Gupta, R.K.  
TI - Effects of tire properties on truck and bus handling. Volume  
I

- OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
National Highway Traffic Safety Administration, Washington, DC.  
SO - Final rept., 1976, 222 p, PB 263878
121. AU - Green, A.J.; Melzer, K.J.  
TI - The performance of two Boeing-GM Wheels (GM VII and GM VIII)  
for the Manned Lunar Rover Vehicle  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Sponsored in part by National Aeronautics and Space  
Administration, Huntsville, AL. George C. Marshall Space Flight  
Center. WES-MP-M-71-3. 1971, ADA 032963  
IT - Lunar surface vehicles; wheels; sand; mobility; traction;  
soil models
122. AU - Rush, E.S.  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Report Number: WES-MP-M-70-10, 1970, 25 p
123. QU - Ervin, R.D.; MacAdam, C.C.  
TI - The noise and traction characteristics of bias-ply truck  
tires. Volume 2. Wet traction findings  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
Motor Vehicle Manufacturers Association of the United States, Inc.,  
Detroit, MI.  
SO - Final rept., 1976, 44 p, PB 259927
124. AU - Ervin, R.D.; Wild, R.E.  
TI - The noise and traction characteristics of bias-ply truck  
tires. Volume 1. Noise and dry traction findings  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
Motor Vehicle Manufacturers Association of the United States, Inc.,  
Detroit, MI.  
SO - Final rept., 1976, 154 p
125. AU - Dais, J.L.  
TI - Analysis of soil indentation by a translating grouser plate  
OS - Army Tank-Automotive Command, Warren, MI., Land Locomotion  
Div.  
SO - Technical rept., 1968, 37 p
126. AU - Durham, G.N.  
TI - Powered wheels in the turned mode operating on yielding soils  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Final rept., WES-TR-M-76-9, 1976, 193 p
127. AU - Spitzer, R.L.  
TI - A reevaluation of the 60% gradeability requirement  
OS - Army Tank-Automotive Command, Warren, MI.  
SO - Report Number: TACOM-74-20, 1975, 34 p
128. AU - Gaberson, H.A.; Stone, P.L.  
TI - Doubling the drawbar of Marine Corps bulldozers  
OS - Civil Engineering Lab U.S. Naval, Port Hueneme, CA

- SO - Final rept., Jul 72-Jun 75, 1976, 77 p, ADA 026253
129. TI - Effects of studded tires  
OS - Transportation Research Board, Washington, DC. Federal Highway Administration, Washington, DC. American Association of State Highway and Transportation Officials. Washington, DC.  
SO - Final rept., synthesis-NCHRP/SYN 32, 1975
130. AU - Ervin, R.D.; Winkler, C.B.  
TI - Braking Efficiency test technique  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. National Highway Traffic Safety Administration, Washington, DC.  
SO - Summary final rept., Jul 73-Nov 74, 1976, PB 252248
131. AU - Schreiner, B.G.; Willoughby, W.E.  
TI - Validation of the AMC-71 Mobility Model. Appendix A: Vehicle data. Appendix B: location and description of test sites. Appendix C: definitions of terrain terms and procedures used to collect terrain data for validation tests. Appendix D: basic terrain data  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Rept No: WES-TR-M-76-5-App-A/D, 1976, 170 p, ADA 023608
132. AU - Habercom, G.E., Jr.  
TI - Aerodynamic forces on motor vehicles  
SO - Apr 76, 75 p
133. AU - Moser, R.; Pinter, B.  
TI - High power motors for electric motor vehicles  
OS - Scientific Translation Service, Santa Barbara, CA  
SO - Translation into English from Bull. Ass. Suisse Elec. (Switzerland), V. 65, No. 5, 9 Mar 1974, p 321-331, N76-11346, 1975
134. AU - Tielking, J.T.  
TI - Analytic Tire Model. Phase I: The statically loaded toroidal membrane  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI.  
SO - Final rept., 30 Jul 74 - 30, Jun 75, 217 p, PB 243521
135. AU - Shopalovich, P.  
TI - Drive-off aid for wheeled vehicles and method  
OS - Department of the Army, Washington, DC  
SO - PATENT-3 741 479
136. AU - Koch, B.  
TI - A computer model of steady-state and transient traction forces and aligning moment developed by pneumatic tires

- OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
Motor Vehicle Manufacturers Association of the United States, Inc.,  
Detroit, MI  
SO - Jan 75, 158 p, PB 241755
137. AU - Ervin, R.D.; MacAdam, C.C.; Fancher, P.S.  
TI - The longitudinal traction characteristics of truck tires as  
measured on dry pavements  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
Motor Vehicle Manufacturers Association of the United States, Inc.,  
Detroit, MI  
SO - Feb 75, 220 p, PB 241023
138. AU - Booker, G.E.  
TI - Design and operation of a dual role slipmeter assembly  
OS - Defence Research Establishment, Ottawa, Ontario  
SO - Technical note, 1975, 26 p, ADA 007268
139. AU - Sinnamon, J.F.; Tielking, J.T.  
TI - Hydroplaning and tread pattern hydrodynamics  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
Motor Vehicle Manufacturers Association of the United States.  
Inc., Detroit, MI  
SO - Interim rept. No. 7, Oct 74, PB 239504
140. AU - Tielking, J.T.; Shih, M.  
TI - HSRI digital computer programs for semi-empirical tire models  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
Motor Vehicle Manufacturers Association of the United States, Inc.,  
Detroit, MI.  
SO - Nov 74, 63 p, PB 238889
141. AU - Dobbins, J.E.  
TI - Tread design study of 9.00R20 radial ply tires  
OS - Nevada Automotive Test Center, Carson City, NV. Army  
Tank-Automotive Command, Warren, MI  
SO - Final rept., 1974, 251 p, ADA 002074
142. AU - Dobbins, J.E.  
TI - Evaluation of the Brazilian run-flat tire  
OS - Nevada Automotive Test Center, Carson City, NV. Army  
Tank-Automotive Command, Warren, MI  
SO - Final rept., Jul 74, ADA 001698
143. AU - Sinnamon, J.F.  
TI - Literature survey of tire-road experiments  
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
SO - Feb 74, 144 p, PB 229893
144. AU - Fancher, P.; Segel, L.; MacAdam, C.; Pacejka, H.  
TI - Tire traction grading procedures as derived from the  
maneuvering characteristics of a tire-vehicle system. Volumes I  
and II (combined)

- OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.  
 SO - Final rept., 1973, 158 p, PB 225561
145. AU - Karafiath, L.L.; Nowatzki, E.A.  
 TI - Tractive performance of wheels in soft soils  
 OS - Grumman Aerospace Corp, Bethpage, NY, Research Dept  
 SO - Research rept., 1973, 41 p, AD 757713
146. AU - Leland, T.J.  
 TI - An evaluation of some unbraked tire cornering force characteristics  
 OS - National Aeronautics and Space Administration. Langley Research Center, Langley Station, VA  
 SO - Nov 72, 37 p, NASA-TN-D-6964
147. AU - Melnikov, E.S.  
 TI - The influence of speed on the magnitude of the tangential traction force of a tracked tractor  
 OTI - (Vliyanie Skorosti na Velichiny Kasatelnoi sily Tyagi Gusenichnogo Traktor)  
 OS - National Tillage Machinery Lab., Auburn, AL  
 SO - Trans. of Tsentralnyi Nauchno-Issledovatel'skii Institut Mekhanizatsii i Elektrifikatsii Selskogo Khozyaistva Nechernozemnoi Zony. Trudy (USSR), v 7, p 148-157, 1969, 1972, PB 212867-T
148. AU - Smith, J.L.  
 TI - Effects of tread pattern on the surface traction of terra-tires  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - Report Number: AEWES-Misc-Paper-4-942, AD 747099
149. AU - Johnsen, J.L.  
 TI - The effect of drawbar-pull in sand of the lateral spacing of cleats  
 OS - Stevens Inst. of Tech., Hoboken, NJ, Davidson Lab  
 SO - Final rept., 1971, 68 p, AD 725472
150. AU - Neill, A.H., Jr.  
 TI - Wet traction of tractionized tires  
 OS - National Bureau of Standards, Washington, DC. Office of Vehicle Systems Research  
 SO - Technical note, 1971, NBS-TN-566
151. TI - Traction devices  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Rept No: MTP-2-2-706, 1965, AD 718012
152. AU - McHenry, R.R.; DeLeys, N.J.  
 TI - Automobile dynamics: a computer simulation of three-dimensional motions for use in studies of braking systems and of the driving task

- OS - Cornell Aeronautical Lab., Inc., Buffalo, NY  
SO - Technical rept., 1970, 207 p, PB 196991
153. AU - Yager, T.J.; Phillips, W.P.; Horne, W.B.; Sparks, H.C.  
TI - A comparison of aircraft and ground vehicle stopping performance on dry, wet, flooded, slush-, snow-, and ice-covered runways  
OS - National Aeronautics and Space Administration, Langley Station, VA, Langley Research Center  
SO - Final rept., 1970, 199 p, AD 715943
154. AU - Sparks, H.C.  
TI - A comparison of wet and dry stopping distances on several runway surfaces using an aircraft and a diagonal-braked automobile  
OS - Aeronautical Systems Div., Wright-Patterson, AFB, OH  
SO - Interim rept., 1970, 108 p, AD 871468
155. AU - Wong, J.Y.  
TI - Optimization of the tractive performance of four-wheel-drive off road vehicles  
OS - Carleton Univ., Ottawa, Ontario, Faculty of Engineering  
SO - 1970, 22 p, AD 714475
156. AU - Luchinskii, N.D.  
TI - Friction and efficiency of powered wheels  
OS - National Tillage Machinery Lab., Auburn, AL  
SO - Trans. of Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Selskogo Khozyaistva (USSR), v 26, n 9, 1968, 1970, p 37-38, PB 194846T
157. TI - Federal Motor Vehicle Safety Standard No. 109 (Tires). The Gates Rubber Company  
OS - Automotive Research Associates, Inc., San Antonio, TX, Compliance test rept.  
SO - Jul 70, 57 p, PB 192514
158. AU - Doran, B.J.; Jones, C.S., Jr.; Nola, F.J.  
TI - Traction drive system design considerations for a lunar roving vehicle  
OS - National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL  
SO - 25 Nov 69, 42 p, NASA-TM-X-53972
159. AU - Dugoff, H.; Fancher, P.S.; Segel, L.  
TI - Tire performance characteristics affecting vehicle response to steering and braking control inputs  
OS - Michigan Univ., Ann Arbor, Highway Safety Research Inst.  
SO - Final rept. May 68-Aug 69, 109 p, PB 187667
160. AU - Calandro, J.N.; James, N.J.; Pavlics, F.  
TI - Resilient wheel

- OS - General Motors Corp., Santa Barbara, CA. Defense Research Lab.  
 SO - Rept No: NASA-CASE-MFS-13929, 1969, 11 p, N69-31329
161. AU - Wiendieck, K.W.  
 TI - Improved wheel performance on sand by controlled circumferential rigidity  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - Final rept., WES-TR-M-69-2, 77 p, AD 688876
162. AU - Baumann, D.M.; Meacham, G.B.  
 TI - Preliminary design and test of linear induction traction motors and suspension systems  
 OS - Massachusetts Inst. of Tech., Engineering Projects Lab, Cambridge  
 SO - 1 Nov 66, 47 p, PB-173686
163. AU - Yankovsk, I.E.; Vyaizenen, V.P.  
 TI - The influence of redistribution of load on the driving wheels upon the tractive indices of the MT3-52 tractor  
 OS - National Tillage Machinery Lab., Auburn, AL  
 SO - Trans. of Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Selskogo Khozyaistva (USSR) n 1, p 42-3, 1968, PB 178082-T
164. AU - Meyer, W.E.; Kummer, H.W.; Lynch, F.J.  
 TI - Design and development of an airport runway surface traction measuring device  
 OS - Thompson (John I.) and Co., Inc., Washington, DC  
 SO - Final rept., 1966, AD 645421
165. AU - Thompson, M.A.; Walters, L.A.  
 TI - The design of D-C commutator motors for high performance electric vehicles  
 OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY  
 SO - Report Number: SAE Paper No. 740169, 1974, 9 p
166. AU - Brickman, A.D.; Park, W.H.; Wambold, J.C.; Zimmerman, J.R.  
 TI - Road roughness effects on vehicle performance  
 OS - Pennsylvania State University, University Park; Pennsylvania Transportation and Traffic Safety Center; University Park, PA  
 SO - Final Rpt., Aug 1972, 219 p
167. TI - Calspan Tire Center; experimental validation of the Calspan Tire Research Facility, Volume 1  
 OS - Calspan Corporation, Tire Research Facility, Buffalo, NY  
 SO - Final Rpt., Dec 1973, 588 p
168. TI - The 1969 and 1970 reports of the National Safety Council Committee on winter driving hazards

- OS - National Safety Council; Committee on Winter Driving Hazards;  
Chicago; IL  
SO - 1972, 128 p
169. AU - Petring, F.W.  
TI - Limited-slip differential as a winter driving traction aid  
SO - Transportation Research Record N477, 1973, p 34-7
170. AU - Neill, A.H.; Boyd, P.L.  
TI - Research on wet tire traction  
SO - Tire Science & Technology, Vol. 1, No. 2, May 1973, p 172-89
171. AU - Tielking, J.T.  
TI - Tire traction research  
SO - Highway Safety Research Institute; Hit Lab Reports, Vol. 3,  
No. 4, Dec 1972, p 5-8
172. AU - Freitag, D.R.; Janosi, Z.J.  
TI - Tracks versus wheels in soft soil and snow  
OS - Army Waterways Experiment Station  
SO - WES Misc Paper 4-651, May 1964, 57 p
173. AU - McRae, J.L.; Knight, S.J.  
TI - The terrain-vehicle programs of the U.S. Army Waterways  
Experiment Station  
OS - Army Waterways Experiment Station  
SO - WES Misc Paper 4-638, Apr 1964, 16 p
174. AU - Hodges, H.C.  
TI - The role of tread design in skid resistance under winter  
driving conditions  
SO - Transportation Research Record N477, 1973, p 38-40
175. AU - Fancher, P.S.; Segel, L.  
TI - Tire traction assessed by shear force and vehicle performance  
SO - Tire Science & Technology, Vol. 1, No. 4, Nov 1973, p 363-81
176. AU - Boyd, P.L.  
TI - Effect of vehicle suspension on wet tire traction testing  
SO - Tire Science & Technology, Vol. 1, No 2, May 1973, p 152-71
177. AU - Yager, T.J.  
TI - A diagonally braked vehicle for the investigation of tire  
traction  
SO - Tire Science & Technology, Vol. 1, No. 2, May 1973, p 138-51
178. AU - Liljedahl, J.B.  
TI - Safety and performance of tractors and machinery  
OS - Sponsoring Org: Department of Agriculture



179. AU - Lawson, L.J.  
TI - Applications of kinetic energy storage to transportation systems  
OS - AiResearch Manufacturing Company  
SO - High Speed Ground Transportation Journal, Vol. 12, No. 3, 1978, p 1-27
180. TI - State-of-the-art assessment of electric and hybrid vehicles  
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH  
SO - NASA-TM-79509, Jan 1978, 596 p
181. AU - Soltis, R.F.; Bozek, J.M.; Denington, R.J.; Dustin, M.O.  
TI - Baseline tests of the Kordesh Hybrid Passenger Vehicle  
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH  
SO - NASA-TM-73769, Jun 1978, 69 p
182. AU - Marcus, A.; Pinkus, O.  
TI - Characterization study of an electric motor-transmission system for electric vehicles  
OS - Mechanical Technology, Inc., Washington, D.C.  
SO - MTI-78TR2, Sep 1977
183. AU - Dowgiallo, E.J.; Bailey, C.E.; Snelling, I.R.; Blake, W.H.; Sherwood, D.  
TI - Baseline tests of the Eva Metro Electric Passenger Vehicle  
OS - Army Mobility Equipment Research & Devlp Command, Fort Belvoir, VA  
SO - Final Rpt., May 1978, 123 p, AD A056927
184. TI - How do alternative powerplant costs compare?  
SO - Automotive Engineering, Vol. 86, No. 5, May 1978, p 39-41
185. AU - Bondarenko, B.R.  
TI - VL 83 Type A.C. eight-axle freight electric locomotive with mono-motor bogies  
SO - Rail International, N 6, Jun 1978, p 373-380
186. AU - Bohli, W.U.; Deng, H.M.; Mueller, W.  
TI - Transformers and smoothing reactors for A.C. traction vehicles  
SO - Brown Boveri Review, Vol. 64, No. 12, Dec 1977, p 740-750
187. AU - Soltis, R.F.; McBrien, E.; Bozek, J.M.; Gourash, F.  
TI - Baseline tests of the Volkswagen Transporter Electric Delivery Van  
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH  
SO - NASA-TM-73766, Jan 1978, 56 p

188. AU - Kielgas, H.; Nill, R.  
TI - Converter propulsion systems with 3-phase induction motors for electric traction vehicles  
SO - Institute of Electrical and Electronics Engineers, 345 East 47th Street, NY, Conf. paper, 1977, p 305-319
189. TI - International Electric Vehicle Symposium, 4th, Volumes 1 and 2, 1976  
OS - Electric Vehicle Council, 90 Park Avenue, NY
190. AU - Chang, M.  
TI - Computer simulation of an advanced hybrid electric-powered vehicle  
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, Paper SAE 780217
191. AU - Sakai, H.; Kanaya, O.; Okayama, T.  
TI - Effect of hydroplaning on the dynamic characteristics of car, truck and bus tires  
OS - Japan Automobile Research Institute, Incorporated  
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, SAE 780195, 1978
192. AU - Sargent, N.B.; McBrien, E.F.; Slavik, R.  
TI - Baseline tests of the C.H. Waterman Renault 5 Electric Passenger Vehicle  
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH  
SO - Report Number: NASA-TM-73759, 1977, 58 p
193. AU - Bozek, J.M.; Maslowski, E.A.; Dustin, M.O.  
TI - Baseline tests of the Eva Change-of-Pace Coupe Electric Passenger Vehicle  
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH  
SO - NASA-TM-73763, 1977, 63 p
194. AU - Sargent, N.B.; Maslowski, E.A.; Soltis, R.F.; Schuh, R.M.  
TI - Baseline tests of the C.H. Waterman DAF Electric Passenger Vehicle  
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH 44135  
SO - NASA-TM-73757, Oct 1977, 113 p
195. AU - Salamon, K.; Kraemer, G.  
TI - Traction batteries for existing and future electric road vehicles  
OS - Varta Batterie AG, 6233 Kelkheim, West Germany  
SO - CONF-760866-4; AED-Conf-76-444-016, 1976, 33 p

196. AU - Danzer, J.  
TI - Traction drive with a commutator-free motor  
OS - Vyzk Lokomotiv, Czechoslovakia  
SO - Elektrotechnicky Obzor, Vol. 66, No. 6, Jun 1977, p 360-364  
LA - Czech
197. TI - Grooved pavement causes tire reaction  
SO - Automotive Engineering, Vol. 85, No. 10, Oct 1977, p 50-52
198. AU - Barron, W.; Crawford, E.; Weinberg, M.  
TI - The outlook for automotive fuel supplies, alternative vehicle engines, and potential implications for transportation tax structures (1985-2000)  
OS - Maryland Department of Transportation, Division of Finance, Baltimore-Washington International Airport, MD  
SO - Final Rpt., Feb 1978, 206 p, PB 279679
199. TI - Wet-red traction tests demonstrated for investigating tire characteristics  
SO - Calspan News, N 18, Nov 1977, p 7
200. AU - Stenger, F.J.; Bozek, J.M.; Soltis, R.F.  
TI - Results of baseline tests of the EVA Metro Sedan, Citi-Car, Jet Industries Electra-Van, CDA Town Car, and Otis P-500 Van  
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH  
SO - NASA-TM-X-73638, Oct 1976, 78 p
201. AU - Green, C.E.; Rula, A.A.  
TI - Low-ground-pressure construction equipment for use in dredged material containment area operation and maintenance - equipment inventory  
OS - Waterways Experiment Station, Vicksburg; MS  
SO - WES-TR-D-77-1, Apr 1977, 156 p, ADA 041451
202. AU - Coleman, R.N.  
TI - Another look at traction parameters  
SO - Conf Paper, Dec 1976, ASAE 76-1517, 8 p
203. AU - Horne, W.B.  
TI - Status of runway slipperiness research  
OS - National Aeronautics and Space Administration  
SO - Transportation Research Record, N624, Proceeding, 1976, p 95-121
204. AU - Sacia, S.R.  
TI - The effect of operating conditions on the skid performance of tires  
OS - Goodyear Tire and Rubber Company  
SO - Transportation Research Record, N621, Proceeding, 1976, p 126-135

205. AU - Kelley, J.D.; Speyer, A.G.  
TI - Effect of tire construction variables on passenger tire wet traction  
OS - Firestone Tire and Rubber Company  
SO - Transportation Research Record, N621, Proceeding, 1976, p 99-106
206. AU - Maeda, Y.  
TI - A consideration of tire-road traction measuring method in Japan  
OS - Yokohama Rubber Company, Limited  
SO - Transportation Research Record, N621, Proceeding, 1976, p 67-74
207. AU - Ervin, R.D.  
TI - Measurement of shear forces developed between tire and pavement  
SO - Transportation Research Record, N621, Proceeding, 1976, p 43-54
208. AU - Ali, O.S.; McKyes, E.  
TI - Traction characteristics of lugged tires  
SO - ASAE Transactions, ASAE 76-1518, Dec 1976, 20 p
209. AU - Young, R.E.; Schafer, R.L.  
TI - Can automation improve traction?  
SO - ASAE Transactions, ASAE 76-1521, Dec 1976, 12 p
210. AU - Lustenader, E.L.; Guess, R.H.; Richter, E.; Turnbull, F.G.  
TI - Development of a hybrid flywheel/battery drive system for electric vehicle applications  
SO - IEEE Transactions on Vehicular Technology, Vol. VT-2N0, 2 May 1977, p 135-143
211. TI - Truck tire braking and cornering traction study  
OS - National Highway Traffic Safety Administration, Department of Transportation
212. TI - Proceedings of International Conference on Automotive Electronics and Electric Vehicles, 1976  
SO - Institute of Electrical and Electronics Engrs Proc Proceeding, SAE, 1976, p 68
213. AU - Chikamori, S.; Honda, M.  
TI - Handling and stability analysis of vehicle with semi-trailer  
OS - Mitsubishi Motors Corporation  
SO - Society of Automotive Engineers (Japan), Bulletin N7, Apr 1976, p 96-106
214. AU - Sullivan, E.  
TI - Lessening energy waste in the road-tire-vehicle-driver system

- OS - Forest Service, Equipment Development Center, San Dimas,  
Berkeley, CA  
SO - Proceeding, 1976, 217 p, PB 264934
215. AU - Busi, J.D.  
TI - Electric vehicle research, development and technology-foreign  
OS - Defense Intelligence Agency, Pentagon, Washington, DC  
SO - ADA 036458, Apr 1976, 73 p
216. AU - Sen, P.C.  
TI - On Linear Synchronous Motor (LSM) for high speed propulsion  
OS - Institute of Electrical and Electronics Engineers, 345 East  
47th Street, NY  
SO - Conf. Paper, 1975, p 261-267
217. AU - Weinstein, C.H.  
TI - R-32 Energy Storage Propulsion System  
OS - Institute of Electrical and Electronics Engineers, 345 East  
47th Street, NY  
SO - Conf Paper, 1975, p 238-246
218. AU - Senac, G.  
TI - Gas turbine traction  
OS - French National Railways  
SO - French Railway Techniques, Vol. 19, No. 3, 1976
219. AU - Obojski, M.; Grochowski, W.  
TI - Waveform of a voltage supplying a traction motor ensuring a  
minimum vehicle starting time  
OS - Warsaw Politechnic University, Poland  
SO - Przegląd Elektrotechniczny, Vol. 52, No. 1, Jan 1976, p 21-23  
LA - Pol
220. AU - Davis, D.D.; O'Connell, L.G.; Warner, S.E.; Raynard, A.E.;  
Rowlett, B.H.  
TI - Battery-flywheel hybrid electric power system for near term  
application, Volume 2, system design  
OS - California University, Livermore, Lawrence Livermore  
Laboratory, Livermore, CA, Washington, DC  
SO - UCID-17098, Vol. 2, Apr 1976, 81 p
221. AU - Bohn  
TI - Simulation of road roughness effects on pavement loading and  
traction forces  
OS - Federal Highway Administration, Structures and Applied  
Mechanics Division
222. TI - 1973 Winter Test Report  
SO - National Safety Council, 425 North Michigan Avenue, Chicago,  
IL, 1974, 80 p

223. AU - Ervin, R.D.  
TI - Mobile measurement of truck tire traction  
SO - Highway Safety Research Institute, Huron Parkway and Baxter Road, Ann Arbor, MI, 1975, 35 p
224. AU - Bird, K.D.; Schuring, D.J.  
TI - Truck tire testing on Tif  
SO - Highway Safety Research Institute, Huron Parkway and Baxter Road, Ann Arbor, MI, 1975, 37 p
225. AU - Dunlap, D.F.; Fancher, P.S., Jr.; Scott, R.E.; MacAdam, C.C.; Segel, L.  
TI - Passenger-car skidding as influenced by roadway design, tire tread depth, and pavement conditions  
SO - HIT Lab Reports, Vol. 5, No. 4, Dec 1974, 19 p
226. AU - Hirsch, N.R.; Meinnert, R.J.  
TI - Investigation of some experimental motorcycle parameters  
OS - National Motor Vehicle Safety Advisory Council, 400 7th Street, SW, Washington, DC  
SO - Proceeding, Jul 1973, 20 p
227. AU - Sliwa, H.  
TI - Mean speed of braking the traction vehicle  
SO - Glasers Annalen ZEV, Vol. 98, No. 12, Dec 1974, p 414-416  
LA - Ger
228. AU - Smithson, F.D.; Hill, F.W., Jr.  
TI - General Motors Tire Performance Criteria (TPC) Specification System  
OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY  
SO - SAE 741103, Oct 1974, 11 p
229. AU - Bradisse, J.L.; Ramsey, A.F.; Sacia, S.R.  
TI - Mobile Truck Tire-Traction Test System  
OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY, SAE 741138, 1974, 12 p
230. AU - Shearer, J.  
TI - Uniform tire quality grading-treadwear  
OS - Compliance Testing Incorporated, P.O. Box 351, Ravenna, OH, Washington, DC  
SO - Final Rpt., Jun 1975, 82 p, PB 244512
231. AU - Kolotushkin, A.; Doronin, A.  
TI - The armoured carrier driver's springtime terrain problems  
OS - Army Foreign Science and Technology Center, 220 7th Street, NE, Charlottesville, VA  
SO - FSTC-HT-23-0061-74, Mar 1974, 8 p, ADA 005478

- 232. AU - Bergman, W.; Beauregard, C.  
 TI - Transient tire properties  
 OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY,  
 Paper SAE 740068, 1974, 15 p
- 233. AU - Belangie, M.C.; Peterson, D.E.  
 TI - Monitoring winter pavement conditions and wear investigators  
 OS - Utah Department of transportation
- 234. TI - Annual winter driving hazards test program  
 OS - National Safety Council
- 235. AU - Martin, J.F.  
 TI - Force and moment characteristics of passenger car tires  
 OS - Calspan Corporation, P.O. Box 235, Buffalo, NY  
 SO - CALSPAN-YD-3160-K-1, 1974, 166 p, PB 231359
- 236. AU - Hibler, W.D., III; Ackley, S.F.  
 TI - A sea ice terrain model and its application to surface vehicle  
 trafficability  
 OS - United States Army Cold Regions Research and Engineering  
 Laboratory, Hanover, NH  
 SO - CRREL-RR-314, 1973, 26 p, AD 774195/2
- 237. AU - Liston, R.A.  
 TI - Operational evaluation of the SK-5 air cushion vehicle in  
 Alaska  
 OS - United States Army, Cold Regions Research and Engineering  
 Laboratory, Hanover, NH  
 SO - CRREL TR 243, Sep 1973, 47 p, AD 768781
- 238. AU - Wood, L.E.; Chandler, R.A.; Warner, B.D.  
 TI - Analysis of problems on the application of radar sensors to  
 automotive collision prevention  
 OS - Institute for Telecommunication Sciences, Office of  
 Telecommunications, Dept of Commerce; Boulder, CO  
 SO - Final Rpt, Dec 1973, 368 p, PB 226065
- 239. AU - Liston, R.A.  
 TI - Observations of surface effect vehicle performance  
 OS - United States Army Cold Regions Research and Engineering  
 Laboratory, Hanover, NH  
 SO - CRREL-TR-240, 1973, AD 762169

Chapter IV - Vehicle mobility.



#### Chapter IV

1. AU - Gorbeshko, M.V.; Romanov, V.V.  
TI - Propelling devices for all-terrain vehicles  
OTI - Dvizhitel' vnedorozhnogo transportnogo sredstva  
SO - Promyshlennyi transport, No. 7, July 1979, p 7  
LA - Rus  
IT - all-terrain vehicles; propellers; tracked vehicles; trafficability; vehicle wheels; swamps; tundra soils
2. TI - Factors affecting use of winter roads during spring thaw  
OS - New Brunswick University, Muskeg Research Institute  
SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 48-3, May 1973, 15 p  
LA - Eng  
IT - solar radiation; snow compaction; tundra terrain; roads; ground thawing; soil trafficability
3. TI - Winter road preparation and commencement of traffic in the Mackenzie Delta  
OS - New Brunswick University, Muskeg Research Institute  
SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 48-2, Nov. 1972, 20 p  
LA - Eng  
IT - ice roads; ground freezing; frost; degree days; trafficability
4. AU - Grant, R.  
TI - Toilet paper and tundra  
SO - North/Nord, vol. 26, no. 1, Spring 1979, p 47-49  
LA - Eng  
IT - aircraft landing areas; runways; soil trafficability; tundra terrain
5. AU - Schreier, H.; Lavkulich, L.M.  
TI - Numerical approach to terrain analysis for off-road trafficability  
SO - Photogrammetric engineering and remote sensing, vol 45, no. 5, May 1979, p 635-642  
LA - Eng  
IT - analysis-mathematics; soil trafficability; terrain analysis; remote sensing
6. AU - Britton, M.E.  
TI - Petroleum exploration and environmental protection in the Alaskan Arctic  
SO - U.S. Geological Survey, Yearbook, 1978, p 27-38  
LA - Eng  
IT - roads; arctic regions; United States - Alaska; aircraft landing areas; environmental protection; tundra soils; soil trafficability; motor vehicles; tundra vegetation; ice roads

7. AU - Belousov, N.A.; Slodkevich, I.A.V.  
TI - Increasing the trafficability of tracked vehicles in winter  
OTI - Povyshenie prokhodimosti gusenichnykh mashin zimoi  
SO - Lesnaia promyshlennost', No. 12, 1978, p 6  
LA - Rus  
IT - motor vehicles; tracked vehicles; cold weather performance
8. AU - Karafiath, L.L.; Nowatzki, E.A.  
TI - Soil mechanics for off-road vehicle engineering  
SO - Series on rock and soil mechanics, Vol. 2, No. 5, 515 p, Clausthal, Germany, Trans Tech Publications, 1977  
LA - Eng  
IT - soil mechanics; all-terrain vehicles; tracked vehicles; soil classification; soil trafficability; plastic properties; vehicle wheels
9. AU - Oberg, G.  
TI - Effect of sanding: traffic and friction studies  
OTI - Effekter av sanding; trafik-och friktionsstudier  
SO - Sweden. Statens vag-och trafikinstitut. Rapport, No. 164, 1978, 53 p + appends.  
LA - Swe, Eng  
IT - road icing; friction; tests; anti-icing additives; sanding; rubber-ice friction; trafficability; winter maintenance; road maintenance
10. AU - Abele, G.; Walker, D.A.; Brown, J.; Brewer, M.C.; Atwood, D.M.  
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 78-16, Sep 1978, 63 p  
LA - Eng  
IT - tundra vegetation; tires; soil trafficability; damage
11. AU - Schwarzhoff, J.E.  
TI - Soil stabilization of organic soils for trail stabilization  
SO - Region 6, U.S. Forest Service, Washington, DC, Aug 1971  
LA - Eng  
IT - cements; soil stabilization; organic soils; soil trafficability; soil moisture; construction; admixtures
12. AU - Sellin, L.  
TI - Peatland conditions as interpreted from aerial photos and thermography  
SO - Sweden. Samsarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 15, 1974, p 145-153  
LA - Swe, Eng  
IT - terrain identification; muskeg; remote sensing; trafficability; photo interpretation

13. AU - Nakkell, E.  
 TI - Wear terms  
 SO - Norway. Veglaboratoriet. Meddelelser, No. 45, Mar 1973,  
 p 9-18  
 LA - Eng  
 IT - roads; trafficability; dynamic loads; hardness tests;  
 pavements; surface properties; bearing strength; temperature  
 variations; tires
  
14. AU - Selivanov, I.I.  
 TI - New trucks of increased terrain trafficability designed in  
 East Germany  
 OTI - Novye gruzovye avtomobili FRG povyshennoi prokhodimosti  
 SO - Avtomobil'naia promyshlennost', No. 10, Oct 1977, p 32-33  
 LA - Rus  
 IT - design; transportation; motor vehicles
  
15. AU - Rickard, W.E.; Slaughter, C.W.  
 TI - Accelerated soil thaw and erosion under vehicle trails in  
 permafrost landscapes  
 SO - Presented at the American Society of Agricultural Engineers,  
 Report Number MP 613, p 263-266, 1973  
 LA - Eng  
 IT - environmental impact; ground thawing; artificial thawing; soil  
 erosion; permafrost weathering; vehicles; soil trafficability
  
16. AU - Kartashov, S.N.  
 TI - Trafficability of snow and firn in East Antarctica  
 OTI - Usloviia prokhodimosti nazemnogo transporta po  
 snezhno-firnovomu pokrovu Vostochnoi Antarktidy  
 SO - Sovet. Antarkticheskaya Eksped., Inform. biull., No. 22, p  
 25-28  
 LA - Rus  
 IT - snow-mechanical properties; snow-physical properties; traverse  
 operations; transportation-oversnow
  
17. AU - Fremling, S.  
 TI - Bearing capacity of lake ice used for traffic  
 OTI - Sjoisars barighet vid trafik  
 SO - Sweden. Meteorologiska och hydrologiska institutet. SMHI  
 rapporter, No. RHO 13, 1977, 68 p  
 LA - Swe, Eng  
 IT - lake ice; loads-forces; ice bearing capacity; static loads;  
 trafficability; ice cracks; ice breaking; ice elasticity; bearing  
 strength
  
18. AU - Drope, M.  
 TI - Arctic snow roads for Arctic pipeline construction -- a  
 Canadian Arctic gas project

- SO - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976, XIV/1-XIV/15, Calgary, Canadian Society for Terrain Vehicle Systems, 1977  
 LA - Eng  
 IT - snow roads; trafficability; snow compaction
19. AU - Radforth, J.R.; Burwash, A.L.  
 TI - Transportation  
 SO - Muskeg Research Conference, 15th, Edmonton, Alberta, 1973. Proceedings. Edited by N.W. Radforth and C.O. Brawner, University of Toronto Press, 1977, p 249-263  
 LA - Eng  
 IT - thermal effects; construction; muskeg; transportation; all-terrain vehicles; environmental impact; trafficability; arctic vegetation
20. AU - Keyes, D.  
 TI - Surface protection from an engineer's point of view  
 SO - Symposium on Surface Protection through Prevention of Damage (Surface Management). Focus: the Arctic Slope, Anchorage, Alaska, May 17-20, 1977. Proceedings. Edited by M.N. Evans, Anchorage, Alaska, Bureau of Land Management, Mar 1978, p 95-102  
 LA - Eng  
 IT - environmental protection; pipelines; waste disposal; trafficability
21. AU - Veschambre, Y.  
 TI - Methods used for winter trafficability on highways A.10 and A.11  
 OTI - Methodes utilisees pour la viabilite hivernale sur les autoroutes A.10 et A.11  
 SO - Neve International, vol. 19, no. 2-3, Autumn 1977, p 61-65  
 LA - Fre  
 IT - winter maintenance; road maintenance
22. AU - Balabolkin, R.K.; Kuptsov, V.M.  
 TI - Operation of automobiles and tracked carriers  
 OTI - Ekspluatatsiia avtomobilei i gusenichnykh transporterov  
 SO - Moscow, Transport, 1975, 93 p  
 LA - Rus  
 IT - winter maintenance; transportation; motor vehicles; tracked vehicles; swamps; trafficability; fuels; lubricants
23. AU - Cherkasov, I.I.  
 TI - Mechanical properties of ground in road construction  
 OTI - Mekhanicheskie svoistva gruntov v dorozhnom stroitel'stve  
 SO - Soil strength, Moscow, Transport, 1976, 247 p  
 LA - Rus  
 IT - test equipment; measuring instruments; soil mechanics; soil trafficability; grain size; soil composition; roads; pavements

24. AU - Nilsson, G.  
TI - Vehicle tracks of polymer materials  
OTI - Fordonsband av polymera material  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning.  
SFM Meddelande, No. 22, 1977, p 75-86  
LA - Swe, Eng  
IT - tracked vehicles; polymers; muskeg; soil trafficability
25. AU - Hagg, B.  
TI - Regulations for driving in terrain with terrain and motor vehicles  
OTI - Foreskrifter for korning i terrang med terrangfordon och motorfordon  
SO - Sweden, Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 57-60  
LA - Swe, Eng  
IT - Sweden; all-terrain vehicles; arctic terrain; muskeg; soil trafficability
26. AU - Carlsson, D.  
TI - Textile carpets at the construction of transportation roads  
OTI - Fibermattor vid anlaggning av transportvager  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning.  
SFM Meddelande, No. 22, 1977, p 53-56  
LA - Swe, Eng  
IT - organic soils; tests; bearing capacity; roads; construction; muskeg; soil trafficability
27. AU - Scholander, J.  
TI - Field tests on organic terrain with an articulated tracked vehicle  
OTI - Korforsok med bandvagn 202 a pa myrmark  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning.  
SFM Meddelande, No. 22, 1977, p 47-52  
LA - Swe, Eng  
IT - organic soils; soil trafficability; roots; muskeg; all-terrain vehicles; arctic vegetation; damage
28. AU - Scholander, J.  
TI - Some comparative cone penetrometer tests on different types of organic soil (muskeg)  
OTI - Nagra jamforande konpenetreringsforsok pa elementarmyrmark  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning.  
SFM Meddelande, No. 22, 1977, summary, p 31-45  
LA - Swe, Eng  
IT - measuring instruments; organic soils; bearing capacity; muskeg; penetration tests; soil compacting; soil trafficability
29. TI - SFM muskeg conference, Oct 6-10, 1976  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning.  
SFM Meddelande, No. 22, 1977, 98 p

- LA - Swe, Eng  
IT - meetings; Sweden; muskeg; organic soils; soil trafficability;  
all-terrain vehicles
30. AU - Adam, K.M.; Hernandez, H.  
TI - Snow and ice roads; ability to support traffic and effects on  
vegetation  
SO - Arctic, vol. 30, no. 1, Mar 1977, p 13-27  
LA - Eng, Fre, Rus  
IT - ice roads; snow roads; trafficability; vegetation patterns
31. AU - Barkhtanov, L.V.  
TI - Practicality of all-terrain vehicles  
OTI - K voprosu o prokhodimosti vezdekhodnykh mashin  
SO - Gorkii. Politekhnikheskii institut. Trudy, vol. 25, no. 9,  
1969, p 46-50  
LA - Rus  
IT - analysis-mathematics; computer simulation; trafficability;  
all-terrain vehicles
32. AU - Karafiath, L.L.  
TI - Running gear-soil modeling for off-road vehicles  
SO - International Conference on Terrain-Vehicle Systems, Detroit,  
Houghton, MI, June 2-6, 1975. Proceedings. Vol. 1, p 221-247  
LA - Eng  
IT - models; all-terrain vehicles; soil strength; tires;  
trafficability
33. TI - Proceedings. Vol. 1, International Conference on  
Terrain-Vehicle Systems, 5th, Detroit, Houghton, MI, June 2-6,  
1975  
SO - 288 p  
LA - Eng  
IT - all-terrain vehicles; soil strength; trafficability
34. AU - Igarashi, H.  
TI - Tentative essay in the economic effect of snow removal of the  
street network  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TL 632, July 1977, 18 p., Translated from Proceedings  
of the Japanese Society of Civil Engineering, No. 196, p 87-93, Dec  
1971  
LA - Eng, Jap  
IT - trafficability; snow removal; streets; winter maintenance;  
economic analysis
35. AU - DenHartog, S.L.  
TI - Floating ice for crossings  
SO - Military Engineer, Report Number MP 780, Mar-Apr 1975, vol 67,  
no. 436, p 64-66  
LA - Eng

- IT - bridges; trafficability; floating ice; ice cover strength;  
ice-construction material
36. AU - Abele, G.; Brown, J.  
TI - Arctic Transportation: operational and environmental  
evaluation of an air cushion vehicle in northern Alaska  
SO - Presented at the Petroleum Mechanical Engineering and Pressure  
Vessels and Piping Conference, Mexico City, Mexico, September  
19-24, 1976, Report Number MP 894, 7 p, Paper Number 76-Pet-41.  
American Society of Mechanical Engineers, 1976  
LA - Eng  
IT - arctic terrain; tests; air cushion vehicles; trafficability;  
cost analysis
37. AU - Brown, J.  
TI - Ecological and environmental consequences of off-road traffic  
in northern regions  
SO - Surface Protection Seminar, Anchorage, Jan 19-22, 1976.  
Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land  
Management, Aug 1976, p 40-53  
LA - Eng  
IT - human factors; thaw depth; soil trafficability; vegetation  
protection; damage; ground thawing; permafrost preservation; arctic  
soils; tundra terrain; all-terrain vehicles; protection
38. AU - Pavlov, L.N.  
TI - Evaluating the trafficability of swampy lands  
OTI - Otsenka prokhodimosti tekhniki po zabolochennoi mestnosti  
SO - Stroitel'stvo truboprovodov, No. 9, Sep 1976, p 15-16  
LA - Rus  
IT - bearing strength; trafficability; construction equipment; pipe  
laying; swamps; peat
39. AU - Kogure, K.  
TI - External motion resistance caused by rut sinkage of tracked  
vehicle  
SO - Journal of Terramechanics, vol. 13, no. 1, May 1976, p 1-14  
LA - Eng  
IT - tracked vehicles; soil strength; compressive strength;  
trafficability
40. AU - Rush, E.S.; Schreiner, B.G.  
TI - Trafficability tests on unconfined organic terrain (muskeg);  
Summer 1963 tests  
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS,  
Technical report, No. 3-744, Nov 1966, 44 p  
LA - Eng  
IT - soil trafficability; all-terrain vehicles; muskeg; permafrost  
depth

41. AU - Radforth, J.R.  
 TI - Long term effects of summer traffic by tracked vehicles on tundra  
 SO - Task Force on Northern Oil Development. Environmental-Social Committee. Report, No. 73-22, 1973, 60 p  
 LA - Eng  
 IT - aerial photography; tundra terrain; trafficability; tires; tundra vegetation; thermokarst; vehicle wheels; damage; long range forecasting
  
42. AU - Smirnov, V.I.  
 TI - Role of ice cover strength in determining trafficability of Arctic sea-ice roads  
 OTI - Rol' prochnosti l'da pri opredelenii srokov ekspluatatsii morskikh arkticheskikh zimnikov  
 SO - Leningrad. Arkticheskii i antarkticheskii nauchno-issledovatel'skii institut. Trudy, Vol. 331, 1976, p 212-216  
 LA - Rus  
 IT - forecasting; sea ice; ice cover strength; ice strength; flexural strength; ice roads; trafficability
  
43. AU - Giudicetti, F.  
 TI - Testing the bearing capacity of soils with the CBR method after freezing and thawing in the laboratory  
 OTI - Bestimmung der Tragfahigkeit eines Bodens mit der CBR-Methode nach dem Gefrieren und Auftauen im Laboratorium  
 SO - Strasse und Autobahn, vol. 26, no. 11, Nov 1975, p 411-419  
 LA - Ger  
 IT - trafficability; freeze thaw tests; soil strength
  
44. AU - Chudakov, D.A.; Skotnikov, V.A.; Kolosha, V.G.  
 TI - Properties and trafficability indices of swamp tractors  
 OTI - Svoistva i pokazateli prokhodimosti bolotokhodnykh traktorov  
 SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 8, Aug 1975, p 36-38  
 LA - Rus  
 IT - trafficability; all terrain vehicles; swamps
  
45. AU - Dorofeev, A.G.; Vegerin, A.M.  
 TI - Prolonging the trafficability of forest winter roads  
 OTI - Opyt prodleniia deistviia zimnikh lesovoznhkh dorog  
 SO - Lesnaia promyshlennost', No. 12, Dec 1974, p 3-4  
 LA - Rus  
 IT - construction costs; snow roads; ice roads; thermal insulation
  
46. AU - Brier, F.W.  
 TI - Road transitions between land, snow, and ice  
 SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory. CEL techdata sheet. Aug 1975-75-21, 2 p



- LA - Eng  
 IT - ice deterioration; construction-road; transportation-oversnow;  
 logistics; sea ice-construction; shelf ice-construction;  
 snow-construction; ice roads; snow roads; trafficability;  
 ice shelves; sea ice
47. AU - Radforth, J.R.; Korpijaakko, E.; Radforth, N.W.  
 TI - Rut damage on frozen organic terrain  
 SO - National Research Council, Canada. Associate Committee on  
 Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p  
 21-26  
 LA - Eng, Fre  
 IT - permafrost beneath roads; muskeg; damage; trafficability;  
 tundra soils; tundra vegetation; tracked vehicles
48. AU - Motta, R.  
 TI - International Conference on Winter Trafficability held in  
 Salzburg  
 OTI - Il Convegno Internazionale della Viabilita Invernale di  
 Salisburgo  
 SO - Neve International, vol. 17, no. 1, Apr 1975, p 3-16  
 LA - Ita  
 IT - roads; trafficability; snow removal equipment; meetings;  
 winter maintenance
49. AU - Andreev, V.N.  
 TI - Influence of human activities on tundra vegetation in relation  
 to general trend of tundra biome development  
 OTI - Izuchenie antropogennykh vozd istvii na rastitel'nost' tundry  
 v svyazi s obshchim napravleniem razvitiia tundrovogo bioma  
 SO - Vsesoluznyi simposium po biologicheskim problemam Severa, 5th,  
 Magadan, Apr 18-22, 1972. Pochvy i rastitel'nost' merzlotnykh  
 raionov SSSR (Soil and vegetation of permafrost regions in the  
 USSR), p 173-179  
 LA - Rus, Eng  
 It - tundra soils; transportation; construction; tundra vegetation;  
 agriculture; damage; human factors; environmental impact
50. AU - Khodakov, V.G.  
 TI - Physical features of snow cover and its effect on landscapes  
 of the North  
 OTI - Rol' snezhnogo pokrova v prirode landshaftov Severa i ego  
 fizicheskie svoistva  
 SO - Akademiia nauk SSSR. Izvestiia. Seriya geograficheskaya,  
 No. 1, Jan-Feb 1975, p 17-26  
 LA - Rus  
 IT - albedo; snow temperature; solar radiation; trafficability;  
 USSR-Ural Mountains; snow cover distribution; snow cover structure;  
 landscape types; snow depth; tundra topography; forest tundra;  
 taiga terrain

51. AU - Zhukov, V.I.  
TI - Influence of traffic intensity of the condition of pavement surfaces during winter  
OTI - Vliianie intensivnosti dvizheniia na izmeneniia sostoiianiia poverkhnosti dorozhnykh pokrytii v zimnee vremia  
SO - Ministerstvo vysshego i srednego spetsial'nogo obrazovaniia. Izvestiia vysshikh uchebnykh zavedenii. Stroitel'stvo i arkhitektura, No. 12, 1974, p 142-144  
LA - Rus  
IT - snow cover effect; surface properties; trafficability; rubber ice friction; rubber-snow friction; roads; pavements; road icing
52. AU - Rising, K.E.  
TI - Temperature, snow, and frost depth investigations in swamps; carrying capacity of swamp soil  
OTI - Temperatur, sno-och tjaldjupsundersokning i myr; myrmarkens barighet  
SO - Stockholm, Forsvarets forskningsanstalt, FOA 2 Rapport A 2571-F7, May 1973, 41 p  
LA - Swe  
IT - swamps; frost penetration; bearing capacity; soil trafficability
53. AU - Govorukhin, A.M.; Gamezo, M.V.  
TI - Excerpts from the Officers Handbook of Military Topography of the USSR  
SO - U.S. Foreign Science and Technology Center. Technical translation, 1969-FSTC-HT-23-718-69, 18 p, Unedited translation of p 166-176 and p 246-252 of cited Russian text.  
LA - Eng, Rus  
IT - military operation; vehicles; trafficability; swamps; ice cover; peat
54. AU - Radforth, J.R.  
TI - Immediate effects of wheeled vehicle traffic on tundra during the summer  
SO - Canada. Department of Indian Affairs and Northern Development. IAND publication, 1973-No. QS-3033-000-EE-A1, 32 p  
LA - Eng  
IT - tires; long range forecasting; Canada-Northwest Territories-Richards Island; tundra terrain; tundra vegetation; vehicle wheels; trafficability
55. AU - Wilson, N.E.  
TI - Stress distribution in organic soils under traffic loading  
SO - Canadian Peat Symposium. [Proceedings], Reprint, Sherbrooke University, 1972, 17 p  
LA - Eng  
IT - peat; deformation; shear strength; organic soils; trafficability; all terrain vehicles; soil strength; dynamic loads

56. AU - Henke, K.F.  
TI - Measuring and estimating soil trafficability  
OTI - Messung und Berteilung der Befahrbarkeit von Boeden  
SO - Strasse und Autobahn, May 1974, v. 25(5), p 173-177  
LA - Ger  
IT - soil trafficability; soil tests
57. AU - Paddison, F.C.; Stone, A.M.  
TI - Transportation in the Arctic  
SO - Polar Deserts Symposium, Philadelphia, 1971. Edited by T.L. Smiley and J.H. Zumberge, p 125-149, Tucson, University of Arizona Press, 1974  
LA - Eng  
IT - permafrost; logistics; transportation; air cushion vehicles; airplanes; icebreakers; fuel transport; trafficability
58. AU - Hibler, W.D., III; Ackley, S.F.  
TI - Sea ice terrain model and its application to surface vehicle trafficability  
SO - U.S. Army Cold Regions Research and engineering Laboratory, Report Number RR 314, Dec 1973, 26 p  
LA - Eng  
IT - sea ice; topographic features; air cushion vehicles; trafficability; models
59. AU - Ivankov, P.  
TI - In deep snow  
OTI - Po glubokomu snegu  
SO - Voennyi vestnik, March 1973, No. 3, p 76-78  
LA - Rus  
IT - snow depth; snow density; snow surface; trafficability; military transportation; military operation; military equipment
60. AU - Brown, R.J.E.; Williams, G.P.  
TI - Freezing of peatland  
SO - National Research Council, Canada. Division of Building Research. Technical paper, 1972-No. 381, 24 p  
LA - Eng  
IT - discontinuous permafrost; construction; peat; soil freezing; freeze thaw cycles; frost penetration; thaw depth; trafficability
61. AU - Short, A.D.; Wiseman, W.J., Jr.  
TI - Freezing effect on Arctic beaches  
SO - Louisiana State University and Agricultural and Mechanical College. Institute of Coastal Studies. Technical report, Jan 1973, TR-128, 12 p  
LA - Eng  
IT - temperature effects; coastal topographic features; frozen ground mechanics; shoreline modification; soil freezing; trafficability

62. AU - Rush, E.S.  
TI - Meteorological and trafficability data, U.S. - Canadian Arctic Weather Stations  
SO - U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS, Miscellaneous report, - AEWES - Misc-Paper 4-298, Jan 1959, 36 p  
LA - Eng  
IT - permafrost; meteorological data; soil mechanics; arctic soils; soil moisture; ground thawing; soil trafficability
63. AU - Harwood, T.A.; Yong, R.N.  
TI - Northland vehicle considerations  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, 1972, No. 104, p 129-145  
LA - Eng, Fre  
IT - all-terrain vehicles; tracked vehicles; soil trafficability
64. AU - Untersteiner, N.  
TI - Future support technology requirements of the Arctic investigator on the surface and in the boundary layer  
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 6-8  
LA - Eng  
IT - boundary layer; remote sensing; ice deterioration; trafficability.
65. AU - Assur, A.  
TI - Locomotion over soft soil and snow  
SO - Automotive Engineering Congress. Paper, Report Number MP 44, Jan 1964-No. 782F, 25 p  
LA - Eng  
IT - trafficability; snow cover; snow mechanics; soil mechanics
66. AU - Assur, A.  
TI - Traffic over frozen or crusted surfaces  
SO - International Conference on the Mechanics of Soil-Vehicle Systems. Proceedings, Report Number MP 43, June 1961, 1st, p 913-923  
LA - Eng  
IT - trafficability; cracking (fracturing); ice cover strength; ice sheets; bearing capacity
67. AU - Smith, M.; Nakano, Y.  
TI - Model analysis of vehicle trafficability with application to surface effect vehicles on sea ice fields  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number RR 298, Jan 1972, 17 p  
LA - Eng  
IT - air cushion vehicles; sea ice; statistical analysis; models; trafficability

68. AU - Skotnikov, V.A.; Kolosha, V.G.  
TI - Force loading effect of attachments on the layout of a tractor assembly designed for swamps  
OTI - (Vliianie silovogo vozdeistviia meliorativnykh mashin na komponovku bolotokhodnogo traktora)  
SO - Stroitel'nye i dorozhnye mashiny, Nov 1971, No. 11, p 18-20  
LA - Rus  
IT - swamps; trafficability; motor vehicles; tractors
69. AU - Terry, C.W.  
TI - Investigation of new instrumentation and techniques for rapid evaluation of load bearing capacity of temporary roads, runways and compacted areas (snow and soil)  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Oct 1966, N-852  
LA - Eng  
IT - trafficability; bearing capacity; performance; soil; snow; test equipment; penetrometers
70. AU - Paige, R.A.  
TI - Ice and snow terrain features, McMurdo Station, Antarctica  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Sept 1966, N-840  
LA - Eng  
IT - runways; roads; maintenance; sea ice; ice mechanics; Antarctica - McMurdo Station; ice (construction material); ice surface; trafficability
71. AU - Weiss, S.J.; Yamamoto, K.; Taylor, D.  
TI - Powered arctic cargo trailer operational tests in sand, mud, and snow  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Sept 1956, N-274  
LA - Eng  
IT - sands; mud; tractors; snow mechanics; trafficability
72. AU - Bruck, A.B.; Burton, G.W.; Radecki, C.T.  
TI - Snow stabilization tests at Point Barrow, Alaska during 1950-51  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, July 1951, N-46, 9 p  
LA - Eng  
IT - trafficability; cold weather construction; United States - Alaska - Point Barrow; snow stabilization; construction equipment; snow roads
73. AU - Taylor, D.; Pierce, N.E.  
TI - Polar transportation - analysis of wheeled vehicles for McMurdo, Antarctica  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, Jan 1967, R-507  
LA - Eng

- IT - roads; transportation; trafficability; antarctica - McMurdo;  
vehicles; cold weather operation
74. AU - Coffin, R.C.  
TI - Squaw Valley Winter Trials, 1958-59. Compacted-snow parking  
study on meadow land  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA,  
Technical report, Nov 1959, R-51, 63 p  
LA - Eng  
IT - snow compaction; trafficability; maintenance; admixtures
75. AU - Moser, E.H.  
TI - Experimental Arctic Operation Hard Top 1, 1953  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA.  
Technical report, Jan 1954, R-6, 435 p  
LA - Eng  
IT - Greenland; runways; trafficability; snow (construction  
material); snow compaction; construction equipment; logistics
76. AU - Vazetdinov, A.  
TI - New all-union state standards for machinery, apparatus and  
manufactured articles for northern regions  
OTI - Novyi GOST na mashiny, pribory i izdeliia v severnom  
ispolnenii  
SO - Stroitel'stvo truboprovodov, Feb 1971, No. 2, p 38  
LA - Rus  
IT - rubber-tracked vehicles; antifreezes; frost resistance; cold  
weather performance; trafficability; road icing; swamps;  
construction materials; construction equipment
77. AU - Thomas, A.N.  
TI - Permafrost, the major challenge  
SO - Oilweek, Nov 3, 1969, 20(37), p 40, 42, 45-46  
LA - Eng  
IT - water supply; seismic surveys; construction; permafrost depth;  
permafrost distribution; tundra terrain; trafficability
78. AU - Burt, G.R.  
TI - Travel on thawed tundra  
SO - Symposium on Cold Regions Engineering, Proceedings, College,  
University of Alaska, 1971, p 296-319  
LA - Eng  
IT - human factors; tundra soils; trafficability; thaw depth; motor  
vehicles; active layer; tundra vegetation
79. TI - Summary on Snow Compaction Tests 1952-53, Kapuskasing, Canada  
SO - U.S. Army Cold Regions Research and Engineering Laboratory  
(SIPRE), Report Number SR 7, May 1954, 24 p  
LA - Eng  
IT - trafficability; tests; snow strength; snow compaction

80. AU - Bender, J.A.  
TI - Testing of a compacted snow runway  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TR 42, July 1956, 38 p  
LA - Eng  
IT - tests; aircraft landing areas; runways; snow (construction material); bearing capacity; compressive properties; trafficability
81. AU - MacFarlane, I.C.; Butler, J.  
TI - Proceedings of the Twelfth Muskeg Research Conference, May 1966  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, March 1967, No. 90, 139 p  
LA - Eng  
IT - construction; muskeg; roads; vehicles; peat; models; surface roughness; trafficability
82. AU - Shapovalov, I.  
TI - DT-75B Tractor for swamps  
OTI - Bolotokhodnyi traktor DT-75B  
SO - Tekhnika v sel'skom khoziaistve, 1970, No. 8, p 58-59  
LA - Rus  
IT - swamps; trafficability; transportation equipment
83. TI - Arctic Environment Study; final report  
OS - Boeing Company. Aerospace Group; U.S. Army Missile Command  
SO - Seattle, Boeing Company for Advanced Research Projects Agency, Oct 1969, 268 p  
LA - Eng  
IT - military operation; arctic climate; navigation; trafficability
84. AU - Shevchenko, L.A.  
TI - Possibility of using landscape indicators for the evaluation of swamp trafficability  
OTI - O vozmozhnosti ispol'zovaniia landshaftnykh indikatorov pri otsenke uslovii dvizheniia transporta na bolotakh  
SO - Moskovskoe obshchestvo ispytatelei prirody. Trudy, 1970, Vol. 36, p 76-86  
LA - Rus, Eng  
IT - ecology; swamps; trafficability; landscape types; vegetation
85. TI - Investigation of snow compaction methods 1949  
SO - U.S. Army Cold Regions Research and Engineering Laboratory (ACFEL), Report Number ACFEL TR 22, June 1949, 216 p, Conducted for Engineer Research and Development Laboratories, FY 1949  
LA - Eng  
IT - tests; aircraft landing areas; snow compaction; equipment; models; trafficability; snow bearing strength; elastic properties

SO - National Research Council. Highway Research Board. Special report, Snow removal and ice control research. Proceedings of an international symposium held at Dartmouth College, Hanover, NH, April 8-10, 1970, April 1970, No. 115, p 97-103

LA - Eng

IT - snow water content; snow compaction; trafficability; skid resistance

87. AU - Cullen, R.M.; Cullingford, G.; Mayfield, B.  
TI - Rigid wheels in clay  
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug. 29 - Sept 2, 1966, Quebec. Proceedings, p 446-470, Toronto, Univ. of Toronto Press, 1966  
LA - Eng  
IT - models; clay soils; vehicle wheels; tests; soil pressure; trafficability
88. AU - Sawada, K.  
TI - Measurements of shearing stress in earth under a moving vehicle  
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug. 29 - Sept 2, 1966, Quebec. Proceedings, p 323-335, Toronto, Univ. of Toronto Press, 1966  
LA - Eng  
IT - vehicles; soil pressure; shear stress; tests; trafficability
89. AU - Ager, B.  
TI - Measuring trafficability of snow  
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29 - Sept 2, 1966, Quebec. Proceedings, p 311-322, Toronto, Univ. of Toronto Press, 1966  
LA - Eng  
IT - measurement; trafficability; snow strength
90. AU - Burt, G.R.  
TI - Summer travel on the tundra with low ground pressure vehicles  
SO - University of Alaska. Institute of Arctic Environmental Engineering, 9 p  
LA - Eng  
IT - tundra terrain; vehicles; trafficability; active layer
91. AU - Wilson, N.E.  
TI - Influence of track design on soil pressures and deformations  
SO - International Peat Congress, 3d, Aug 18-23, 1968, Quebec. Proceedings, p 60-64, In English with French summary. Ottawa, National Research Council, Canada, 1968  
LA - Eng, Fre  
IT - design criteria; soil mechanics; soil trafficability
92. AU - Hemstock, R.A.  
TI - Transportation over muskeg



SO - International Peat Congress, 3d, Aug 18-23, 1968, Quebec.  
Proceedings, p 57-59, In English with French summary. Ottawa,  
National Research Council, Canada, 1968

LA - Eng, Fre

It - leg; trafficability; vehicles

93. AU - Stevens, H.W.; Tizzard, W.J.  
TI - Traffic tests on Portage Lake ice  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TR 99, Dec 1969, 49 p  
LA - Eng  
IT - compressive strength; flexural strength; ice crystal size; ice  
crystal structure; trafficability; lake ice; floating ice; ice  
bearing capacity; loads (forces)
94. AU - Pules, M.L.; Eves, D.J.  
TI - ATV flotation tires  
SO - Society of Automotive Engineers, Technical Paper No. 720765  
IT - all-terrain vehicles; amphibious vehicles; military vehicle  
mobility; ride evaluation; suspension systems; tires
95. AU - Kummel, H.  
TI - Practical snowmobility for ordnance vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 720259.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - cold weather operation; military vehicles; mobility research;  
snow vehicles
96. AU - Armantrout, K.M.; Dick, W.M.  
TI - Torque-biasing full-time four-wheel drive for passenger and  
utility vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 710614  
IT - four wheel drive
97. AU - Gerstel, L.  
TI - Principles of stepping vehicles with overbridging and  
self-leveling properties  
SO - Society of Automotive Engineers, Technical Paper No. 710233  
IT - mobility research; transportation; vehicle design
98. AU - House, W.C.; Eggington, W.J.; Lysdale, C.A.  
TI - Evolution of the air cushion  
SO - Society of Automotive Engineers, Technical Paper No. 710182  
IT - ground effect machines
99. AU - Lockie, P.E.; Wormley, J.D.  
TI - Design and performance characteristics of White Construction  
Equipment four-wheel drive self propelled vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 700725  
IT - four wheel drive

100. AU - Wigotsky, V.W.  
TI - The pressure for transportation balance  
SO - Society of Automotive Engineers, Technical Paper No. 700187  
IT - transportation
101. AU - Austrow, H.W.; Kelt, L.  
TI - The M561 Cargo Truck-the Gama Goat  
SO - Society of Automotive Engineers, Technical Paper No. 700015  
IT - military vehicles; truck design
102. AU - Johnson, R.M.  
TI - Procurement and Development of the M715 1-1/4 Ton truck series  
SO - Society of Automotive Engineers, Technical Paper No. 700014  
IT - cold weather operation; military vehicles; truck design
103. AU - Hurford, E.C.  
TI - Doctrinal basis for high mobility vehicles in forward area  
Army units  
SO - Society of Automotive Engineers, Technical Paper No. 700011  
IT - military vehicle mobility
104. AU - Elkins, A.O.; Schaefer, H.W.; Brooks, D.M.  
TI - Family of military engineer construction equipment  
SO - Society of Automotive Engineers, Technical Paper No. 690579  
IT - construction equipment design; military vehicles
105. AU - Tashjian, R.C.; Simmons, J.A.  
TI - Marine Corps Marginal Terrain Vehicle XM 759  
SO - Society of Automotive Engineers, Technical Paper No. 690190  
IT - military vehicles; tires
106. AU - Herling, W.R.; Markow, E.G.  
TI - Elliptical wheel concepts  
SO - Society of Automotive Engineers, Technical Paper No. 690153  
IT - military vehicle mobility; wheels
107. AU - Howe, G.H.; Wells, C.G.  
TI - The Air-Cell Suspension System - A solution to off-road  
mobility problems  
SO - Society of Automotive Engineers, Technical Paper No. 690152  
IT - computer simulation; military vehicles; suspension systems
108. AU - Gay, R.R.; Harju, W.P.  
TI - A statistical approach of determining cross-country speed  
SO - Society of Automotive Engineers, Technical Paper No. 690151  
IT - military vehicle mobility; statistics
109. AU - Bartlett, G.E.; Belsdorf, M.R.; Deutschman, J.N.; Smith, R.L.  
TI - On the prediction of off-road vehicle system mobility  
SO - Society of Automotive Engineers, Technical Paper No. 690150.  
Also published in SAE Transactions, Vol. 78, 1969  
IT - computer simulation; military vehicle mobility

110. AU - Brannon, W.; David, R.H.; Hodges, W., Jr.; Janowski, W.R.  
TI - Design and development of the twister testbed  
SO - Society of Automotive Engineers, Technical Paper No. 690149  
IT - military vehicles; mobility research
111. AU - Douglas, O.; Burr, C.E.  
TI - Potential of the air cushion vehicle for off-road mobility  
SO - Society of Automotive Engineers, Technical Paper No. 690148  
IT - amphibious vehicles; ground effect machines; military vehicle mobility; mobility research
112. AU - King, C.W.; Collins, G.C. Slabiak, W.  
TI - Electric-wheel vehicle propulsion system  
SO - Society of Automotive Engineers, Technical Paper No. 690071.  
Also published in SAE Transactions, Vol. 78, 1969  
IT - electric vehicles; military vehicles
113. AU - Forsyth, R.W.; Forsyth, J.P.  
TI - Design and development of the TerraStar Marginal-Terrain Amphibian  
SO - Society of Automotive Engineers, Technical Paper No. 680535.  
Also published in SAE Transactions, Vol. 77, 1968  
IT - amphibious vehicles; military vehicles
114. AU - Tuttle, G.A.; Trapp, E.W.; Trestrail, C.D.  
TI - The United States/Federal Republic of Germany Main Battle Tank Program; A pioneering effort in international development  
SO - Society of Automotive Engineers, Technical Paper No. 680534  
IT - management; military vehicles
115. AU - Wong, R.E.  
TI - Surface mobility systems for lunar exploration  
SO - Society of Automotive Engineers, Proceedings No. P-23. Also published in SAE Transactions, Vol. 77, 1968  
IT - lunar vehicles
116. AU - Comstock, K.G.  
TI - GOERS: The Army's high mobility logistics fleet  
SO - Society of Automotive Engineers, Technical Paper No. 680253  
IT - military vehicles; truck operation-truck performance
117. AU - Kind, W.H.; Logan, J.S.  
TI - Design of the M656 cargo truck  
SO - Society of Automotive Engineers, Technical Paper No. 680101  
IT - military vehicles; steering; suspension systems
118. AU - Wong, R.E.; Galan, L.; Bradford, L.L.  
TI - Design for the lunar environment  
SO - Society of Automotive Engineers, Technical Paper No. 680099  
IT - lunar vehicles

119. AU - Hoppe, C.H.  
TI - Design for the rough terrain environment  
SO - Society of Automotive Engineers, Technical Paper No. 680098  
IT - computer applications; military vehicle mobility; mobility research; vehicle dynamics
120. AU - Ehrlich, I.R.; Dugoff, H.; Worden, G.M.  
TI - Design for the riverine environment  
SO - Society of Automotive Engineers, Technical Paper No. 680097  
IT - military vehicle mobility
121. AU - Rieli, A.  
TI - Design for limited warfare environment  
SO - Society of Automotive Engineers, Technical Paper No. 680095  
IT - military vehicles; test equipment
122. AU - Vrooman, A.J.; Osteen, L.L.  
TI - Army's new hinged-frame tractor and companion 18 cu yd scraper  
SO - Society of Automotive Engineers, Technical Paper No. 670739.  
Also published in SAE Transactions, Vol. 76  
IT - construction equipment design; hydraulic systems; military vehicles
123. AU - Rula, A.A.; Freitag, S.J.; Knight, S.J.  
TI - Design of off-road vehicle test beds for remote area operation  
SO - Society of Automotive Engineers, Technical Paper No. 670171  
IT - military vehicle mobility; mobility research
124. AU - Liston, R.A.  
TI - Correlation between predicted and actual off-road vehicle performance  
SO - Society of Automotive Engineers, Technical Paper No. 670170.  
Also published in SAE Transactions, Vol. 76  
IT - military vehicle mobility; mobility research; systems engineering
125. AU - Ehrlich, I.R.  
TI - Place of model tests in vehicle development  
SO - Society of Automotive Engineers, Technical Paper No. 670169  
IT - military vehicles; mobility research; models; operations research; tests
126. AU - McKenzie, R.D.; Howell, W.M.; Skaar, D.E.  
TI - Computerized evaluation of driver-vehicle-terrain systems  
SO - Society of Automotive Engineers, Technical Paper No. 670168.  
Also published in SAE Transactions, Vol. 76  
IT - computer simulation; military vehicles; mobility research; models; vibration
127. AU - Umberger, C.C.  
TI - Vehicles for traversing the Twilight Zone

- SO - Society of Automotive Engineers, Technical Paper No. 660745  
 IT - military vehicles; mobility research
128. AU - Friedman, D.  
 TI - The corollary advantages of Lunar Terrestrial Vehicle and Power Train Research  
 SO - Society of Automotive Engineers, Technical Paper No. 660150  
 IT - lunar vehicles; mobility research
129. AU - Pavlics, F.  
 TI - Locomotion energy requirements for lunar surface vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 660149.  
 Also published in SAE Transactions, Vol. 75  
 IT - lunar vehicles; mobility research
130. AU - Sponsler, W.B.  
 TI - Preliminary mobility tests of a scale model lunar roving vehicle  
 SO - Society of Automotive Engineers, Technical Paper No. 660147  
 IT - lunar vehicles; mobility research; soil mechanics; suspension systems
131. AU - Zimmerman, R.E.  
 TI - XM-561 Cargo Truck - a breakthrough in mobility  
 SO - Society of Automotive Engineers, Publication No. 961C  
 IT - military vehicles; mobility research; truck design
132. AU - Gardner, C.N.; Sutton, B.H.; Lloyd, B.A.  
 TI - Overall evaluation and mobility prediction of ground support vehicles for weapon systems  
 SO - Society of Automotive Engineers, Publication No. SP-261  
 IT - mobility research; ground support equipment; military vehicles
133. AU - McNicholas, R.J.; Crane, F.L.  
 TI - Guide to fire support mix evaluation techniques. Vol. 1, guide and appendices A and B  
 OS - Stanford Research Inst, Menlo Park, CA, Naval Warfare Research Center  
 SO - 1 Mar 73, 255 p, AD 912715
134. AU - Brown, D.N.; Clark, A.A.; Lacavich, R.J.; Rush,  
 TI - Relative surfacing requirements for container-handling vehicles  
 OS - Army Waterways Experiment Station, Vicksburg, MI  
 SO - Rept No. AEWES-Misc-Paper-S-72-34, 1972, AD 905195/4
135. AU - Schreiner, B.G.  
 TI - Mobility exercise a (MEXA) Field Test Program, Report 2. Performance of MEXA and three military vehicles in soft soil. Volume 1  
 OS - Army Waterways Experiment Station, Vicksburg, MI

- SO - Rept. No. AEWES-TR-M-70-11-2, Vol-1, 1971, AD 883199/2
136. TI - Development of 90-mm Gun Tank, T49  
OS - Pittsburgh Univ, Washington, DC Research Staff  
SO - Apr 54, 6 p, AD 395255
137. AU - Ng, W.K.; Neilson, J.E.  
TI - Conversion of the AMC 74 Mobility Program to DREO's Sigma 9  
OS - Defence Research Establishment Ottawa, Ontario  
SO - Oct 79, 18 p, ADA 079496
138. AU - Patil, A.S.; Manthey, G.C.  
TI - Test of Caterpillar, 50,000-pound-capacity, Rough-Terrain Container Handler (RTCH)  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
SO - Sep 79, 35 p, ADA 077513
139. AU - Harris, W.A.  
TI - Human factors and training implications of advanced-concept cargo vehicles  
OS - Army Research Inst for the Behavioral and Social Sciences, Alexandria, VA  
SO - Feb 78, 27 p, ADA 076706
140. AU - Adams, G.J.; Hoover, L.  
TI - Study on hydrostatic drives for small AGT vehicles  
OS - Mobility Systems Equipment Co., Los Angeles, Urban Mass Transportation Administration, Washington, DC, Office of Technology Development and Deployment.  
SO - Oct 78, 121 p, PB 298805
141. AU - Riddell, F.R.; Dix, D.M.  
TI - Technology assessment of advanced propulsion systems for some classes of combat vehicles. Volume 1, summary and main text  
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div, Shared Bibliographic Input Experiment  
SO - Sep 78, 217 p, ADA 070534
142. AU - Riddell, F.R.; Dix, D.M.  
TI - Technology assessment of advanced propulsion systems for some classes of combat vehicles. Volume 2. Appendices A-F  
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div, Shared Bibliographic Input Experiment  
SO - Sep 78, 354 p, ADA 070528
143. AU - Riddell, F.R.; Dix, D.M.  
TI - Technology assessment of advanced propulsion systems for some classes of combat vehicles. Volume 3. Appendices G-M  
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div, Shared Bibliographic Input Experiment  
SO - Sep 78, 284 p, ADA 070529

144. AU - Randolph, D. D.  
TI - Mobility performance of selected truck/trailer combinations in the HIMO West Germany Study Area (TACV Addendum)  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-MP-GL-79-10, May 79, 88 p, ADA 068870
145. AU - Randolph, D.D.  
TI - Mobility performance of the M578 Light Recovery Vehicle and other selected vehicles  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Rept. No. WES-MP-GL-79-6, Mar 79, 91 p, ADA 068082,
146. TI - Test operations procedure. Tropic testing of vehicles  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 31 Oct 78, 50 p, ADA 066798
147. AU - Dowgiallo, E.J. Jr; Bailey, C.E. Jr; Snellings, I.R.; Blake, W.H.  
TI - Baseline tests of the Sebring Citi-Van Electric Delivery Truck  
OS - Army Mobility Equipment Research and Development Command Fort Belvoir, VA, Department of Energy, Washington, DC  
SO - Feb 79, 63 p, ADA 066582
148. AU - Dowgiallo, E.J. Jr; Bailey, C.E. Jr; Snellings, I.R.; Blake, W.H.  
TI - Baseline Tests of the Electra-Van Multipurpose Electric Van  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, Va, Department of Energy, Washington, DC.  
SO - Nov 78, 71 p, ADA 065147
149. TI - Applicability of the Remote Mobile Emplacement Package (RMEP)-Design as a mobility aid for proposed Post-84 Mars Missions, Phase 0  
OS - Grumman Aerospace Corp., Bethpage, NY  
SO - Rept. No NASA-CR-158041; 1978, N79-14139
150. AU - Dowgiallo, E.J. Jr; Bailey, C.E. Jr; Snellings, Ivan R.; Blake, W.H.  
TI - Baseline tests of the Daihatsu EH-S40 Electric Delivery Van  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA, Department of Energy, Washington, DC  
SO - Aug 78, 62 p, ADA 063661
151. AU - Heslin, J.G.  
TI - Combat power: an ontological approach  
OS - Naval War College Newport, RI, Center for Advanced Research  
SO - 1978, 181 p, ADA 061706
152. AU - Randolph, D.D.  
TI - Mobility performance of selected 1/4- to 10-ton tactical trucks and cargo carriers in the HIMO West Germany study area (TACV Study)

- OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - Rept. No. WES-MP-M-78-10, 1978, ADA 062 455
153. AU - Niemeyer, W.A.; Thibodeau, R.C.  
 TI - Parametric analysis of main battle tank mobility in Korean terrain  
 OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD  
 SO - Oct 78, 60 p, ADA 060871
154. AU - Randolph, D.D.  
 TI - Mobility performance of selected 1-1/4- to 5-Ton cargo trucks in the HIMO West Germany study area (TACV Excursion)  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - Rept. No. WES-MP-M-78-9, 1978, ADA 060324
155. AU - Blundell, C.  
 TI - Bibliography on Terrain Vehicle Systems Analysis  
 OS - Defence Research Establishment Ottawa, Ontario  
 SO - Jul 78, 180 p, ADA 059233
156. TI - Improving urban mobility: a directory of research, development and demonstration projects in public transportation  
 OS - Urban Mass Transportation Administration, Washington, DC, Office of Research, Development and Demonstration  
 SO - PB-285 427
157. AU - Stephens, J.E. Jr.; Reid, J.W. Jr.  
 TI - Tractor, wheeled, warehouse, gasoline, 4000-pound-drawbar-pull, Pneumatic-Tire-User Survey  
 OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
 SO - Mar 78, 52 p, ADA 058206
158. AU - Criswell, A.W.; Martin, L.E.; Thibodeau, R.C.  
 TI - Mobility analysis of IFV Task Force alternatives  
 OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD  
 SO - Jul 78, 59 p, ADA 057118
159. AU - Stephens, J.E. Jr.; Reid, J.W. Jr.  
 TI - Tractor, wheeled warehouse, gasoline, 4000-pound-drawbar-pull, Pneumatic-Tire-Manufacturer Survey  
 OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
 SO - Mar 78, 30 p, ADA 058156
160. AU - Dowgiallo, E.J. Jr.; Bailey, C.E. Jr.; Snelling, I.R.; Blake, W.H.; Sherwood, D.  
 TI - Baseline tests of the EVA Metro Electric Passenger Vehicle



- OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
SO - May 78, 123 p, ADA 056927
161. AU - Heberlein, D.C.  
TI - Hardening of countermine structures  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
SO - Jun 78, 15 p, ADA 056445
162. AU - Dowgiallo, E.J.  
TI - Hybrid power source for vehicular propulsion  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
SO - 1978, 14 p, AD-A056 427
163. AU - Stephens, J.E., Jr; Reid, J.W., Jr  
TI - Forklift trucks, gasoline-engine-driven, 4000 to 6000-pound-capacity - user survey  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
SO - Feb 78, 78 p, ADA 053770
164. AU - Stephens, J.E., Jr; Reid, J.W., Jr  
TI - Forklift trucks, gasoline-engine-driven, 4000 to 6000-pound-capacity - Manufacturer Survey  
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA  
SO - Feb 78, 78 p, ADA 055416
165. AU - Pabon, R.J.; Hamlin, R.S.; Martray, R.A.  
TI - Analysis of mobility data from the Division Restructuring Evaluation Battalion Test  
OS - Army Combined Arms Combat Developments Activity, Fort Leavenworth, KS  
SO - Apr 78, 148 p, ADA 054830
166. AU - Martin, L.E.; Niemeyer, W.A.  
TI - A mobility analysis of vehicles participating in S-Tank Agility-Survivability (STAGS) Testing  
OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD  
SO - Sep 77, 66 p, ADA 053731
167. AU - Wise, S.  
TI - Convoy Counterambush Weapon Systems  
OS - Army Limited War Lab, Aberdeen Proving Ground, MD  
SO - Mar 66, 31 p, AD 375758
168. AU - Green, A.J.; Smith, J.L.; Murphy, N.R.  
TI - Measuring soil properties in vehicle mobility, research; strength-density relations of an air-dry sand

- OS - Waterways Experiment Station, Vicksburg, MS, 39180  
SO - WES TR-3-652; 1964
169. AU - Melzer, K.J.  
TI - Power requirements for wheels operating in fine-grained soils  
SO - Waterways Experiment Station, Misc Paper M-73-2, Apr 1973
170. AU - Turnage, G.W.  
TI - Measuring soil properties in vehicle mobility research  
SO - U.S. Waterways Experiment Station, Tech. Rep. n 3-652, Jun 1973, 74 p  
IT - soils, trafficability, soil mechanics, clay
171. AU - Liston, R.A.  
TI - The effect of low visibility on the performance of vehicle operators  
SO - Cold Regions Research and Engineering Lab., 1972
172. AU - Rula, A.A.; Freitag, D.R.; Knight, S.J.  
TI - Concepts for vehicles for off-road use in remote areas  
SO - Waterways Experiment Station, Misc Paper 53, 1966
173. AU - Mcrae, J.L.  
TI - Theory for a towed wheel in soil  
SO - Waterways Experiment Station, Misc Paper 4-626, 38 p, Sept 1964
174. AU - Douglas, B.E.  
TI - Mobility/radiation factor evaluations as design aids for high performance vehicles  
SO - Intl. Institute of Noise Control Engineering; 8332 Zurich-Ruschikn; Switzerland, Proceeding, 1976
175. AU - Erlbaum, N.S.; Hartgen, D.T.; Cohen, G.S.  
TI - Automotive energy forecasts: impact of price, availability, and efficiency  
OS - New York State Department of Transportation; Planning Division; Albany, New York, 12232  
SO - Res. Report 133, 1977, 99 p
176. AU - Hupkes, G.  
TI - Throttle open or throttle down. Scenarios for the future of the transportation system, part I and II  
OS - Uitgeverij Kluwer BV; 8 Stromarkt; Deventer; Netherlands, 1977
177. TI - WES papers presented at international conference, International Society for Terrain-Vehicle Systems, 5th, Held in Detroit - Houghton, Michigan, June 2-6, 1975  
OS - Waterways Experiment Station, Vicksburg, MS, 39180  
SO - Report No.: AEWES-N-MISC Pap M-575, AD-A012653/2ST, 1975

178. AU - Rula, A.A.; Nuttall, C.J.; Dugoff, H.J.  
TI - Vehicle mobility assessment for Project Wheels Study Group  
OS - Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-73-1; 1972, AD-A008286/7ST
179. TI - Amphibious ice breaking craft  
SO - Ship and Boat International, Vol. 27, No. 12, Dec 1974, p 20
180. AU - Al-Hussaini, M.M.; Gilbert, P.A.  
TI - Stressed and shearing resistance in soil beneath a rigid wheel  
OS - Waterways Experiment Station, Vicksburg, MS, 39180  
SO - AEWES-TR-S-74-7, 1974, AD/A-000609/8SL
181. AU - Bader, H.; Tyree, D.; Love, H.  
TI - Arctic logistics support technology  
OS - Arctic Institute of North America  
SO - Dec 1971, 50 p, AD 734646
182. AU - Brown, R.L.  
TI - Volumetric Constitutive Law for snow subjected to large strains and strain rates  
OS - U.S. Army Corps of Eng, Cold Regions Research and Engineering Lab., Hanover, NH  
SO - CRREL Rep 79-20, Aug 1979, 18 p  
IT - snow and snowfall; measurement mathematical models; roads and streets; snow and ice control
183. AU - Turnage, G.W.  
TI - Trafficability and stability analysis for bottom-crawling work vehicles in the nearshore region  
SO - Offshore Technol Conf, 11th, Proc, Houston, Tex, Apr 30-May 3 1979. Publ by Offshore Technol Conf, 6200 N. Central Expressway, Dallas, Tex, 1979, v 3, p 1913-1927  
IT - bottom-crawling vehicles
184. AU - Windisch, E.J.; Yong, R.N.  
TI - Determination of soil strain-rate behaviour beneath a moving wheel  
SO - Journal of Terramechanics, 1970, v. 7(1), p 55-67  
LA - Eng, Fre, Ger  
IT - plasticity; soil mechanics; soil trafficability; strain rate; vehicle wheels; x-ray analysis
185. TI - Cold Regions Research and Development Symposium  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 80, March 1964, 185 p  
LA - Eng  
IT - whiteout; ice fog; research projects; military operation; visibility; fog dispersal; glacier ablation; sewage disposal; pile foundations; remote sensing; frozen ground mechanics; muskeg; trafficability

186. AU - Pihlainen, J.A.  
TI - A review of muskeg and its associated engineering problems  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Rept. No. TR 97, Dec 1963  
LA - Eng  
IT - muskeg; construction equipment
187. AU - Diamond, M.; Hansen, B.L.  
TI - Use of a shear vane in snow  
SO - U.S. Army Cold Regions Research and Engineering Laboratory  
(SIPRE), Report Number TR 40, July 1956, 10 p  
LA - Eng  
IT - trafficability; measuring instruments; snow strength; shear  
strength
188. AU - Taylor, A.  
TI - Snow compaction  
SO - U.S. Army Cold Regions Research and Engineering Laboratory  
(SIPRE), Report Number TR 13, Jan 1953, 64 p  
LA - Eng  
IT - snow compaction; snow roads; trafficability; snow crystals
189. TI - Some aspects of snow, ice, and frozen ground  
SO - U.S. Army Cold Regions Research and Engineering Laboratory  
(SIPRE), Report Number TR 10, Aug 1953, 32 p  
LA - Eng  
IT - snow physics; trafficability; engineering
190. AU - Sartori, E.  
TI - Winter trafficability experiments in Vaud Canton  
OTI - Experiences faites dans le canton de Vaud sur la viabilite  
hivernale  
SO - Strasse und Verkehr, Feb 1970, v. 56(2), p 65-70  
La - Fre  
IT - snow removal; road maintenance
191. AU - Ager, B.H.  
TI - On snow properties and snow stabilization  
OTI - Om snons egenskaper och snostabilisering  
SO - Forskningsstiftelsen Skogsarbeten. Meddelande, 1965, No. 3,  
41 p  
LA - Swe, Eng  
IT - snow compaction; snow density; snow roads; trafficability
192. AU - Ragozin, B.K.  
TI - Passenger transport on waterways of Siberia and the Far East  
OTI - Razvitie passazhirskikh perevozok na vodnykh putiakh Sibiri i  
Dal'nego Vostoka  
SO - Novosibirsk. Institut inzhenerov vodnogo transporta. Trudy,  
1968, Vol. 27, p 25-32

- LA - Rus  
IT - trafficability; icebound rivers
193. AU - Gerasimov, V.N.  
TI - Organizing year-round traffic on Siberian rivers  
OTI - Effektivnost' organizatsii kruglogodovykh perevozok po rekam Sibiri  
SO - Novosibirsk. Institut inzhenerov vodnogo transporta. Trudy, 1968, Vol. 27, p 10-17  
LA - Rus  
IT - trafficability; icebound rivers
194. AU - Ashdown, K.; Radforth, N.W.  
TI - Trafficability of organic terrain  
SO - National Research Council, Canada, Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 11th, May 1965, Proceedings, May 1966 - No. 87, p 184-190  
LA - Eng, Fre  
IT - bearing strength; trafficability; muskeg; vehicles
195. TI - Proceedings of the 11th Muskeg Research Conference, 6 and 7 May 1965  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, 1966 - No. 87, 212 p  
LA - Eng, Fre  
IT - Canada; peat; permafrost; trafficability; aerial photography; construction; muskeg
196. AU - Benson, C.S.  
TI - Physical properties of the snow cover in the Ft. Greely area, Alaska  
SO - Rept. No. MP 58, 47, 11 refs., College, Alaska, Univ. of Alaska. Geophysical Institute, - Feb 1968  
LA - Eng  
IT - United States - Alaska - Fort Greely; snow cover; snow physics; trafficability
197. AU - Gimein, S.  
TI - Ice - friend and enemy  
OTI - Led - drug i vrag)  
SO - Sel'skii mekhanizator, Feb 1968, No. 2, p 40-41  
LA - Rus  
IT - trafficability; ice cover; load distribution; ice structure; icebound rivers
198. AU - Kostogryz, S.G.  
TI - Calculating resistance to tracked vehicle movement on weak grounds  
OTI - Metodika otsenki soprotivleniia dvizheniiu gusenichnykh lesnykh mashin po slabym gruntam

199. AU - Volkova, A.E.; Zelentsova, L.I.  
TI - Frozen ground excavation equipment  
OTI - Mashiny dlia razrabotki merzlykh gruntov  
SO - Biulleten' stroitel'noi tekhniki, July 1978, No. 7, p 43-48  
LA - Rus  
IT - earthwork; excavating equipment; tracked vehicles; frozen ground
200. AU - Trantham, A.W.  
TI - Product improvement test of T130E1 track and suspension components  
SO - U.S. Army Cold Regions Test Center. Report, Apr 1977, 16 p  
LA - Eng  
IT - tracked vehicles; low temperature tests
201. AU - Brown, A.M.; Smith, F.A.  
TI - Experience with Nodwell RN110B tracked carrier  
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, 1968, Records, Tokyo, Ministry of Education, 1968, p 321-328  
LA - Eng  
IT - vehicles-Nodwells; Wilkes Station
202. TI - Transporter, four tracked, 8-axle 24,000-pound (Nodwell RN200)  
Phase II: subarctic evaluation  
OS - U.S. Army Transportation Board, Fort Eustis, VA  
SO - Rept. No. TCB-61-136-EV, Nov 1962, 35 p  
LA - Eng  
IT - vehicles-Nodwells
203. AU - Sherwood, G.E.; Beard, W.H.  
TI - Polar transportation equipment - hydraulic cranes for cargo vehicles  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, Calif. Technical note, Sept 1965, N-770, 7 p  
LA - Eng  
IT - logistics; vehicles; cargo operations; Antarctica - McMurdo Station
204. AU - Leslie, H.C.  
TI - Arctic operation experiences with tracks and wheels  
SO - Symposium on Tracks or Wheels, Calgary, Alberta, June 3-4, 1976, VIII/1-VIII/5, Calgary, Canadian Society for Terrain Vehicle Systems, 1977  
LA - Eng  
IT - tracked vehicles; tires; winter maintenance
205. AU - Steltner, H.A.R.  
TI - Transportation of personnel, instruments and equipment of first-year sea ice for oceanographic survey and research purposes  
SO - International Conference on Port and Ocean Engineering Under Arctic Conditions, 4th, St. John's, Sep 26-30, 1977, p 485-493, Memorial University of Newfoundland, 1978

- LA - Eng  
IT - research projects; sea ice; sleds; tracked vehicles
206. AU - Novikov, I.U.P.; Rogozhin, V.P.; Samokhvalov, L.S.  
TI - Results of experiments with cab heating in tracked vehicles in the Far North  
OTI - Rezul'taty eksperimental'nogo issledovaniia v oblasti teplovogo rezhima kabiny gusenichnogo transportera, rabotaiushchego v usloviakh Krainego Severa  
SO - Gorkii. Politekhnikheskii institut. Trudy, 1969, v. 25(9), p 57-63  
LA - Rus  
IT - tracked vehicles; heating
207. AU - Slaughter, C.W.  
TI - Site access for a subarctic research effort  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 76-09, Apr 1976, 13 p  
LA - Eng  
IT - research projects; remote sensing
208. AU - Abele, G.  
TI - Effects of hovercraft, wheeled and tracked vehicle traffic on tundra  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 16th, Oct 7, 1976. Proceedings, Report Number MP 1123, Mar 1976-No. 116, p 186-215  
LA - Eng  
IT - air cushion vehicles; tracked vehicles; vehicle wheels; tundra vegetation; damage
209. AU - Wilson, N.E.  
TI - Peat under cyclic load  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 16th, Oct 7, 1976. Proceedings, Mar 1976-No. 116, p 144-151  
LA - Eng  
IT - peat; muskeg; stresses; tracked vehicles; damage
210. AU - Lancaster, W.V.  
TI - Moccasin tracks  
SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, p 249-255, Anchorage, AL, Bureau of Land Management, Aug 1976  
LA - Eng  
IT - vehicle wheels; Arctic vegetation; tracked vehicles
211. AU - Bekker, M.G.  
TI - Tracks in muskeg

- SO - Sweden. Samarbetsorganisationen for fordon-markforskning.  
 Specialnotiser fran SFM, 1975-No. 15, 38 p  
 LA - Eng  
 IT - protection; computer programs; tundra; muskeg; tracked vehicles; loads (forces); air cushion vehicles; mathematical models; organic soils
212. AU - Efremenko, V.P.  
 TI - Construction machines for the North  
 OTI - O mashinakh dlia stroek Severa  
 SO - Mekhanizatsiia stroitel'stva, Sept 1974-No. 9, p 2-3  
 LA - Rus  
 IT - frozen ground; tank cars; cold weather construction; cranes; construction equipment; tracked vehicles; excavating equipment
213. AU - Liston, R.A.  
 TI - Strip load approximation for a track  
 SO - American Society of Agricultural Engineers, Winter Meeting, 1973. Proceedings, Report Number MP 723, 47+15 p, St. Joseph, Michigan, American Society of Agricultural Engineers, 1973  
 LA - Eng  
 IT - soil mechanics; soil strength; tracked vehicles; dynamic loads; settlement (structural)
214. AU - Hjeljord, O.  
 TI - Studies of revegetation in vehicle tracks in Svalbard  
 OTI - Studier av revegetasjonsforlop i gamle traktorspor pa Svalbard  
 OS - Norsk Polarinstitutt  
 SO - Oslo. Norsk Polarinstitutt. Arbok, 1971 (Publ. 1973), p 31-42  
 LA - Nor, Eng  
 IT - tundra vegetation; damage; tracked vehicles; soil erosion; ground thawing
215. AU - Mikhailov, P.M.; Chizhov, V.V.  
 TI - ETTS-131 chain-type trench excavator for laying drainage during the winter  
 SO - U.S. Army Foreign Science and Technology Center. Translation, March 1973-FSTC-HT-23-969-73, 4 p, Translation of Stroitel'nye i Dorozhnye Mashiny, No. 2, 1972, p 20-21  
 LA - Eng, Rus  
 IT - excavating equipment; tracked vehicles; subsurface drainage; pipe laying
216. AU - Kerfoot, D.E.  
 TI - Topographic aspects of artificial disturbances to the tundra in the Mackenzie Delta area, N.W.T.  
 SO - Mackenzie Delta area monograph, edited by D.E. Kerfoot, p 157-174, St. Catharines, Ontario, Brock University, 1972  
 LA - Eng



- IT - Canada - Northwest Territories - Inuvik; tundra vegetation; deformation; tracked vehicles; frozen ground analysis; thaw depth; active layer thickness; thermokarst; subsidence
217. TI - Tractors with inflatable Caterpillar tracks  
 OTI - Traktor s naduvnymi gusenitsami  
 SO - Izobretatel' i ratsionalizator, Sept 1972-No. 9, p 16-17  
 LA - Rus  
 IT - swamps; tractors; tracked vehicles
218. AU - Dogaev, I.U.M.  
 TI - Basic trends in technical progress of railless transportation on land in northern regions  
 OTI - Osnovnye napravleniia tekhnicheskogo progressa na sukhoputnom bezrel'sovom transporte Severa  
 SO - Problemy severa, 1972-Vol. 17, p 91-102  
 LA - Rus  
 IT - cold weather performance; transportation; motor vehicles; tracked vehicles
219. AU - Summer, N.R., Jr.; Alper, S.; Girard, E.W.; Villu, A.  
 TI - Transportation systems for military and civilian operations in northern regions  
 SO - Research Analysis Corporation Technical paper, June 1972-RAC-TP-450, 130 p  
 LA - Eng  
 IT - tracked vehicles; economics; cold weather operation; environmental tests; transportation; military transportation; air cushion vehicles
220. AU - Hosoya, M.; Tsuchiya, K.; Yamamoto, K.  
 TI - Report on the operation of mechanical transport for the JAKE South Pole Traverse 1968-1969  
 SO - Japanese Antarctic Research Expedition. Scientific reports, March 1971 - Special Issue No. 2, p 204-261  
 LA - Eng  
 IT - performance; maintenance; traverses; tracked vehicles
221. AU - Pierce, N.E.  
 TI - Specifications for the M-29 Cargo Carrier Pickup  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Note, Jan 1964, N-569, 11 p  
 LA - Eng  
 IT - transportation; tracked vehicles; specifications
222. AU - Rush, B.G.; Dawes, J.R.  
 TI - Winterization of M29C Cargo Carrier  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Dec 1951-N-64  
 LA - Eng  
 IT - tests; transportation; cold weather operation; cargo; tracked vehicles

223. AU - Pierce, N.E.; Taylor, D.  
 TI - Polar Transportation - analysis of tracked personnel and cargo carriers for McMurdo: Antarctica  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, April 1966-R-436  
 LA - Eng  
 IT - Antarctica - McMurdo; transportation; tracked vehicles
224. AU - Rymes, J.E.  
 TI - Significance of track design approach angle to critical bearing conditions of muskeg  
 SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, March 1967-No. 90, p 57-62  
 LA - Eng, Fre  
 IT - classifications; muskeg; bearing strength
225. AU - Uffelman, F.L.  
 TI - Soft ground performance of a vehicle when provided with an air pressure load relief system  
 SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29 - Sept 2, 1966, Quebec. Proceedings, p 475-497, 6 refs., Toronto, - Univ. of Toronto Press, 1966  
 LA - Eng  
 IT - performance; analysis (mathematics); vehicle wheels; tracked vehicles; slopes; trafficability; soil pressure
226. AU - Okamura, A.  
 TI - Application of rubber crawler "Ohtsu Mighty Pillar" for engined tillers  
 SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29 - Sept 2, 1966, Quebec. Proceedings, p 84-100, Toronto, - Univ. of Toronto Press, 1966  
 LA - Eng  
 IT - performance; vehicles
227. AU - Radforth, J.R.; Roe, P.H.  
 TI - Computer modelling of tracked vehicles on muskeg  
 SO - International Peat Congress, 3d, Aug 18-23, 1968, Quebec. Proceedings, p 65-68, In English with French summary. Ottawa, National Research Council, Canada, 1968  
 LA - Eng, Fre  
 IT - design criteria; muskeg; computer applications; mathematical models
228. AU - Kuvshinov, IA.  
 TI - Using Caterpillar tractors in winter  
 OTI - Ispol'zovanie gusenichnykh traktorov zimoi  
 SO - Tekhnika v sel'skom khoziaistve, Dec 1967 - 27(12), p 42-44  
 LA - Rus  
 IT - cold weather operation; maintenance

229. AU - Nadrshin, T.  
 TI - Sleds should be ready in summer  
 OTI - Gotov' sani letom  
 SO - Tekhnika v sel'skom khoziaistve, March 1966 - 26(3), p 53-56  
 LA - Rus  
 IT - sleds
230. AU - McGhee, R.B.; Olson, K.W.; Briggs, R.L.  
 TI - Electronic coordination of joint motions for terrain-adaptive robot vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 800382  
 IT - all-terrain vehicles; automatic control; computer applications; lunar behicles; Mars probes
231. AU - Chalmers, W.G.  
 TI - A new concept in commercial vehicle suspension  
 SO - Society of Automotive Engineers, Technical Paper No. 730654  
 IT - rubber-synthetic rubber; suspension systems; truck design; truck trailers
232. AU - Petelski, N.; Davis, L.  
 TI - Vcon 3006-truck-extending tire capacity through innovation  
 SO - Society of Automotive Engineers, Technical Paper No. 730285.  
 Also published in SAE Transactions, Vol. 76  
 IT - suspension systems; tires; truck operation - truck performance
233. AU - Davis, L.  
 TI - Vcon 3006 - a new concept in large mining trucks  
 SO - Society of Automotive Engineers, Technical Paper No. 720376  
 IT - mining equipment
234. AU - Pierrot, V.C.; Gustafson, M.L.  
 TI - Forest mechanization - a challenge to the industry  
 SO - Society of Automotive Engineers, Technical Paper No. 670690.  
 Also published in SAE Transactions, Vol. 76  
 IT - wood; logging equipment
235. AU - Yong, R.N.; Harrison, W.L.  
 TI - On vehicle mobility in snow-covered terrain. 1. Problem development and requirements for analysis  
 SO - Journal of Terramechanics, Dec 1978, 15(4), p 223-235  
 LA - Eng  
 IT - snow density, dynamic loads; snow cover effect; trafficability; snow cover structure; heat transfer; solar radiation; vehicles; interfaces
236. AU - Da Rios, G.; Pirani, G.  
 TI - Demand for winter mobility on highways  
 OTI - La domanda di mobilita stradale nel periodo invernale  
 LA - Ita  
 IT - cost analysis; winter maintenance; snow removal; ice removal; trafficability; accidents

237. TI - Requirement for identification and characterization of snow for mobility purposes  
 OS - International Society for Terrain-Vehicle Systems. Committee on Snow Mechanics Research Coordination  
 SO - McGill University, Montreal. Geotechnical Research Centre. Soil mechanics series, May 1978-No. 40, Prepared for the 6th International Conference of the I.S.T.V.S., Vienna, Aug 1978  
 LA - Eng  
 IT - all-terrain vehicles; snow strength; trafficability; classifications; snow mechanics; snow vehicles
238. AU - Scholander, J.  
 TI - Vegetation strength in the upper layer according to mobility tests - a review  
 OTI - Nagra erfarenheter av vegetationstackets hallfasthet i samband med fordonsprovning  
 SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM meddelande, 1977-No. 22, p 13-29  
 LA - Swe, Eng  
 IT - bearing capacity; arctic vegetation; muskeg; strength; soil trafficability
239. AU - Silvennoinen, U.; Haarlao, R.  
 TI - Aspects on the mobility of logging tractors on snow.  
 SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, p 205-213, 2 refs., Stockholm, Sweden, 1972.  
 LA - Eng  
 IT - tests; tracked vehicles; snow strength; snow cover stability; trafficability; tractors
240. AU - Frost, R.E.; Johnson, P.L.; Leighty, R.D.; Anderson, V.H.; Poulin, A.O.; Rinker, J.N.  
 TI - Mobility Environmental Research Study: a quantitative method for describing terrain for ground mobility. Vol. VI. Selected air-photo patterns of terrain features  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Technical Report No. 3-726, Report Number MP 556, May 1966, 150 p  
 LA - Eng  
 IT - Thailand; terrain analysis; aerial photography; photointerpretation; vegetation patterns
241. AU - Hibler, W.D., III; Ackley, S.F.  
 TI - Height variation along sea ice pressure ridges and the probability of finding "holes" for vehicle crossings  
 SO - Journal of Terramechanics, Dec 1975, 12(3/4)  
 LA - Eng  
 IT - sea ice; pressure ridges; air cushion vehicles; ice crossings;

242. AU - Wastenson, L.  
 TI - Mapping off-the-road mobility of terrain vehicles  
 OTI - Kartering av framkomlighetsmojligheter for terrangfordon  
 SO - Uppsala. Universitet. Naturgeografiska institutionen. UNGI rapport, 1974, No. 34, p 403-418  
 LA - Swe, Eng  
 IT - soil trafficability; motor vehicles; terrain identification; aerial photographs; photointerpretation
243. TI - TACOM's Arctic Test Center integrates effort...linked to USARAL training mission, emphasizing far north mobility  
 SO - Army Research and Development, Nov-Dec 1973-14(6), p 16-18  
 LA - Eng  
 IT - military equipment; military research
244. AU - Areskoug, S.  
 TI - Proposed method for determining mobility of vehicles and motorized units on the road and cross country  
 OTI - Forslag till metod for restamning av fordons och motoriserade forbands rolighet pa vag och i terrang.  
 SO - U.S. Army Foreign Science and Technology Center. Technical translation, March 15, 1973-FSTC-HT-23-1850-72, 42 p  
 LA - Eng, Swe  
 IT - trafficability; all-terrain vehicles; terrain analysis; design criteria
245. AU - Forsyth, R.W.; Forsyth, J.P.  
 TI - New high-mobility military vehicles  
 SO - Automotive Industries, April 1965, 132(8), p 102  
 LA - Eng  
 IT - all-terrain vehicles
246. AU - Magnussen, G.L.; Aulin, B.H.  
 TI - Some off-road mobility studies in Sweden  
 SO - Sweden. Forsvarets forskningsanstalt. Avdelning 2. FOA 2. Rapport, Feb 1971, A2536-97, 11 p  
 LA - Eng  
 IT - military operation; computerized simulation; vehicles
247. AU - Liston, R.A.  
 TI - Surface effect vehicle engineering test procedures  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 161, Aug 1971, 28 p  
 LA - Eng  
 IT - slopes; air cushion vehicles; performances; tests
248. AU - Weiss, S.J.  
 TI - Use of the Soil Truss Mark 2 in determining the shearing strength characteristics of a snow cover  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Jan 1952, N-75, 5 p  
 LA - Eng  
 IT - trafficability; snow cover; shear strength; test equipment

249. AU - Yoder, E.J.; Hampton, D.  
 TI - Pavement profile and roughness measurement (a review of methods)  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory (ACFEL), Report Number ACFEL TR 73, June 1960, 51 p  
 LA - Eng  
 IT - pavements; surface roughness; measurement; instruments; profiles
250. AU - Leighty, R.D.  
 TI - Terrain mapping from serial photography for purposes of vehicle mobility  
 SO - Journal of Terramechanics, Report Number MP 266, 1965-2(3), p 55-67  
 LA - Eng  
 IT - photointerpretation; terrain analysis; photogrammetry; trafficability
251. AU - Gerdel, R.W.  
 TI - Influence of Arctic environment on military mobility  
 SO - Society of Automotive Engineers. Automotive Engineering Congress, Detroit, MI, Jan 14-18, 1963, Report Number MP 131, Jan 1963-No. 623C, 12 p  
 LA - Eng  
 IT - snow cover; ice cover strength; snow vehicles; military engineering; trafficability
252. AU - Goodman, L.J.  
 TI - Significance of disturbance and thixotropy in mobility problems  
 SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29-Sept 2, 1966, Quebec. Proceedings, p 247-278, Toronto, Univ. of Toronto Press, 1966  
 LA - Eng  
 IT - analysis (mathematics); clay soils; thixotropy; trafficability
253. AU - Nuttall, C.J., Jr.  
 TI - Ground-crawling; 1966 the state-of-the-art of designing off-road vehicles  
 SO - U.S. Waterways Experiment Station, Vicksburg, MI, 1967, 307 p  
 LA - Eng  
 IT - design criteria; topographic factors; vehicles; soil trafficability
254. AU - Melamed, V.G.  
 TI - Effect of the Ice-Separation Curve on the problems concerning freezing-thawing of soil with varied moisture content  
 OTI - O vliianii krivoi l'distosti na protsess promerzaniia i ottaivaniia gruntov s razlichnoi estestvennoi vlazhnost'iu  
 SO - Merzlotnye issledovaniia, Vol. 6, 1966, p 20-27  
 LA - Rus  
 IT - analysis (mathematics); soil freezing; thawing

255. TI - Vehicle mobility research, Parry Sound - 1966  
OS - McMaster University, Hamilton, Ontario. Organic and  
Associated Terrain Research Unit  
SO - Canada. Defence Research Board. DWER report, Dec 1968, No.  
2/67, 19 p  
LA - Eng  
IT - muskeg; vehicles; trafficability; peat
256. AU - Hoekstra, P.; Miller, R.D.  
TI - On the mobility of water molecules in the transition layer  
between ice and solid surface  
SO - Journal of Colloid Science, Oct 1967, v. 25(2), p 166-173  
LA - Eng  
IT - ice solid interface; soil moisture migration; electroosmosis;  
frozen ground
257. AU - Chu, M.L.; Doyle, G.R.  
TI - Nondeterministic analysis of a four-wheeled model vehicle  
traversing a simulated random terrain  
SO - Society of Automotive Engineers, Technical Paper No. 780789  
IT - mathematical analysis; mobility research; simulation;  
suspension systems; vehicle dynamics
258. AU - Sloss, D.A., Jr.; Brady, P.M., Jr.  
TI - Evaluation of the Landing Vehicle Assault (LVA) over-land  
performance  
SO - Society of Automotive Engineers, Technical Paper No. 780127  
IT - military vehicle mobility; models; amphibious vehicles; soil  
mechanics; mobility research
259. AU - Alden, J.T.  
TI - The self-supporting tire: a new concept in vehicle mobility  
SO - Society of Automotive Engineers, Technical Paper No. 770349  
IT - tires
260. AU - Wheeler, P.  
TI - Tracked Vehicle Ride Dynamics Computer Program  
SO - Society of Automotive Engineers, Technical Paper No. 770048  
IT - computer simulation; military vehicle mobility; mobility  
research; ride evaluation; vehicle dynamics
261. AU - James, D.H., Keen, H.M.  
TI - The DENOVO Run flat tire  
SO - Society of Automotive Engineers, Technical Paper No. 760743  
IT - tires; safety; mobility research; passenger car performance
262. AU - Nodell, W.R.; Seely, J.H.  
TI - A chronology and development status of the amphibious assault  
landing craft, JEFF(A)  
SO - Society of Automotive Engineers, Technical Paper No. 750717  
IT - aerospace production; automatic control; design; steels

263. AU - Warner, D.R.  
 TI - Three generations of Soviet wheeled military transport vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 750219  
 IT - all-terrain vehicles; military transportation; military vehicle mobility; military vehicles; truck design; truck operation-truck performance
264. AU - Beck, R.R.; Kamm, I.O.  
 TI - A cybernetically coupled research vehicle  
 SO - Society of Automotive Engineers, Technical Paper No. 750217  
 IT - actuators; automatic control; military vehicle mobility; attitude control; hydraulic systems; military vehicles
265. AU - Bradisse, J.L.; Ramsey, A.F.; Sacia, S.R.  
 TI - Mobile truck tire-traction test system  
 SO - Society of Automotive Engineers, Technical Paper No. 741138  
 IT - tires; test equipment; truck operation-truck performance
266. AU - Gilvin, L.P.  
 TI - Fifty years of earthmoving in west Texas  
 SO - Society of Automotive Engineers, Technical Paper No. 740417  
 IT - production control; military vehicle mobility; reliability; transportation
267. AU - Hearn, D.L.; Van Dorn, N.H.  
 TI - Modern transportation systems  
 SO - Society of Automotive Engineers, Technical Paper No. 740225  
 IT - transportation; rapid transit; systems engineering
268. AU - Schreiner, B.G.; Czako, T.  
 TI - Results derived from Soil-Vehicle Field Test Program of MEXA Design Vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 730037  
 IT - military vehicle mobility; soil mechanics
269. AU - Siorek, R.W.  
 TI - Experimental investigation of effect of wheel travel on tracked vehicle mobility  
 SO - Society of Automotive Engineers, Technical Paper No. 730036  
 IT - military vehicle mobility; shock absorbers; springs; suspension systems; vehicle performance; wheels
270. AU - Birk, E.L.  
 TI - Armored reconnaissance scout vehicle development program  
 SO - Society of Automotive Engineers, Technical Paper No. 730035  
 IT - military vehicles
271. TI - Run-flat tire uses double bead, reinforced sidewall  
 SO - Automotive Engineering, (Warrendale PA) v 87, n 6, Jun 1979, p 91-93  
 IT - tires; testing



272. AU - Yong, R.N., Fattah, E.A., Boonsinsuk, P.  
 TI - Analysis and prediction of type-soil interaction and performance using finite elements  
 SO - J Terramech, v 15, n 1, Mar 1978, p 43-63  
 IT - vehicles - soil factors; tires - traction; mathematical techniques - finite element method
273. AU - Yong, R.N.; Fukue, M.  
 TI - Performance of snow in confined compression  
 OS - McGill Univ., Montreal, Que  
 SO - J Terramech, v 14, n 2, Jun 1977, p 59-82  
 IT - snow and snowfall - mechanical properties; vehicle - off-road operational
274. AU - Penaluna, K.D.; Mikes, R.J.  
 TI - Economic and mobility considerations in truck tire and retread selection  
 OS - Ruan Transp Corp  
 SO - Proc., SAE Highw Tire Noise Symp, San Francisco, CA, Nov 10-12, 1976, Publ by SAE (P-70), Warrendale, PA, 1977 Pap 762001 p 9-12  
 IT - motor trucks; tires; tires; costs
275. AU - Dowgiallo, E.J., Jr.; Snellings, I.R.; Blake, W.H.  
 TI - Battery powered jeep and van performance  
 OS - US Army Mobility Equip Res & Dev Command  
 SO - SAE Prepr n 770387 for Meeting, Feb 28-Mar 4, 1977  
 IT - storage battery vehicles; motor trucks - electric, electric batteries - secondary
276. AU - Zimmerman, M.D.  
 TI - One down, one to go: shootout over the next main battle tank  
 SO - Machine Design, v 48, n 28, Dec 9 1976 p 28-30  
 IT - military vehicles - design
277. AU - James, D.H.; Keen, H.M.  
 TI - Denovo run flat tire  
 OS - Dunlop Ltd, Gateshead-on-Tyne, England  
 SO - SAE Prepr n 760743 for Meeting Oct 18-22, 1976 7 p  
 IT - tires - design; automobiles - tires
278. AU - Steig, R.W.  
 TI - Construction truck front tandem suspension with one driving axle  
 OS - Mack Trucks, Inc, Allentown, PA  
 SO - SAE Prepr n 760253 for Meeting, Feb 23-27, 1976, 10 p  
 IT - motor trucks - design; construction equipment
279. AU - Chin, F.K.; Watts, R.  
 TI - On vehicle mobility measurement & recording system  
 OS - Gen Am Transport Corp, Niles, IL

- SO - Natl Bur Stand Spec Publ n 436, 1975, for 22nd Meet of Mech Failures Prev Group, Anaheim, CA, Apr 23-25, 1975, p 195-220  
 IT - automobiles, testing; transducers; signal processing - computer applications
280. AU - Thomas, I.A.  
 TI - Northern off-road transportation in the 70's  
 OS - Canadair Flextrac Ltd, Calgary, Alta  
 SO - ASCE; J Constr Div, v 101, n 3, Sep 1975, p 635-646  
 IT - vehicles - off road operation; transportation - costs; construction industry - cold weather problems
281. AU - Koehler, K.A.  
 TI - Stabilized combat compartment in armored vehicles  
 OTI - Der Stabilisierte Kampfraum Im Panzerfahrzeug  
 OS - Rheinstahl, Kassel, Ger  
 SO - Wehrtechnik, n 4, Apr 1975, p 146-152  
 IT - military vehicles
282. AU - Linnenbrink, T.E.; Gamache, D.L.  
 TI - Mo/Mars mobility measurement and recording system  
 OS - Gen Am Transp Corp, Niles, Ill  
 SO - Autom Support Syst for Adv Maintainability, Symp, ASSC Rec, Arlington, Tex, Nov 5-7, 1973, p 69-78. Publ by Institute of Electrical and Electronic Engineers, New York, 1973  
 IT - motor trucks - testing; data storage - magnetic - tape; mechanical variables measurement
283. AU - Lessem, A.S.  
 TI - Variable-Stress Vehicle Reliability Model  
 SO - US Waterway Experiment Station Tech Rep M-74-3, Apr 1974, 96 p  
 IT - vehicles - testing; mathematical models; reliability; stresses - analysis
284. AU - Nuttall, C.J., Jr.; Rula, A.A.; Dugoff, H.J.  
 TI - Computer model for comprehensive evaluation of cross-country vehicle mobility  
 OS - Army Waterways Experiment Station  
 SO - SAE Prepr n 740426 for Meeting, Apr 23-24, 1974, 24 p  
 IT - vehicles - off road operation; earthmoving machinery; mathematical programming
285. AU - Turnage, C.W.  
 TI - Resistance of coarse-grained soils to high-speed penetration  
 SO - US Waterways Experiment Station Tech Rep n 3-652, Jul 1974, 99 p  
 IT - soils - trafficability; vehicles - soil factors, sand and gravel
286. AU - Petring, F.W.  
 TI - Limited-slip differential as a winter driving traction aid

- SO - Highw Res Rec, n 477, 1973, p 34-37  
IT - cars; traction
287. AU - McKechnie, R.M., III  
TI - Generalized vehicle dynamics program for interactive hybrid computer graphics  
OS - US Army Mobility Equip Res and Dev Cent, Fort Belvoir, VA  
SO - Summer Comput Simulation Conf, Proc, Montreal, Que, Jul 17-19, 1973, v 1, p 312-318. Available from Simulation Council, Inc, La Jolla, CA, 1973  
IT - military vehicles - electric; computer graphics; computers - hybrid
288. AU - Barber, V.C.; Murphy, N.R.  
TI - Vehicle/Road Compatibility Analysis and Modification Systems (VRCAMS)  
SO - US Waterways Experiment Station Tech Rep S-73-13, Dec 1973, 163 p  
IT - military vehicles - riding qualities; soils - trafficability; roads and streets
289. AU - Neuheuser, H.  
TI - Future artillery observation tank of the German Federal Armed Forces  
OTI - Der Zukuenftige Artillerie-Beobachtungspanzer Der Bundeswehr  
OS - Minist, BMVg, Bonn, Germany  
SO - Wehrtechnik, n 2, Feb 1974, p 48-51  
IT - military vehicles; guns; data processing - military purposes
290. AU - Yong, R.N.  
TI - Analytical predictive requirements for physical performance of mobility  
OS - McGill Univ, Montreal, Quebec  
SO - J Terramech, v 10, n 4, 1973, p 47-60  
IT - soils - surveys; roads and streets - soil surveys
291. AU - Miszklevitz, S.L.  
TI - Dynamic simulation of soil-wheel interaction  
SO - Stevens Inst Technol, Davidson Lab, Rep n SIT-DL-73-1689, 1973, 63 p  
IT - vehicles - soil factors; mathematical models; stresses - computer applications
292. TI - Report of the Ad Hoc Working Group on Innovative Mobility Concepts  
SO - Stevens Inst Technol, Davidson Lab, Rep R-1714, Oct 1973, 56 p, appendices  
IT - military vehicles - design; vehicles - off road operation

293. AU - Roesler, D.J.; Gaddy, L.D., Jr.  
TI - Turbine-electric tractor-trailer test rig  
OS - U.S. Army Mobility Res and Dev Center  
SO - SAE Prepr n 730748 for Meeting, Sep 10-13, 1973, 10 p  
IT - motor trucks - gas turbines
294. AU - Jurkat, M.P.  
TI - Automatic path specification for the AMC 71 Mobility Model  
OS - Stevens Inst of Technol, Hoboken, NJ  
SO - Stevens Inst Technol, Davidson Lab, Rep n 1658, Sep 1973, 66  
IT - military vehicles - computer programming
295. AU - Trindal, W.S.  
TI - Technical analysis study of off-road tires  
OS - US Army Mobility Equip Res and Dev Cent, Fort Belvoir, VA  
SO - SAE Prepr n 730853 for Meeting, Sep 10-13, 1973, 15 p  
IT - tires - testing; vehicles - off-road operation
296. AU - Schreiner, B.G.; Czako, T.  
TI - Results derived from Soil-Vehicle Field Test Program of Mexa Design Vehicles  
OS - US Army Corps of Engineers  
SO - SAE Prepr n 730037 for Meeting, Jan 8-12, 1973, 11 p  
IT - vehicles - off road operation; military vehicles; soil mechanics
297. AU - Ferber, E.  
TI - Wheeled vehicle follow-on generation  
OTI - Die Folgegeneration Der Radkraftfahrzeuge  
OS - BMVg, Bonn, West Germany  
SO - Wehrtechnik, n 2, Feb 1973, p 52-56  
IT - military vehicles - West Germany; military engineering; military equipment - armor
298. AU - Wong, J.Y.  
TI - Performance of the Air-Cushion-Surface-Contacting Hybrid Vehicle for overland operation  
OS - Carleton Univ, Ottawa, Ontario  
SO - Inst Mech Eng (London), Proc v 186, Pap n 50, 1972, p 613-623  
IT - vehicles - off road operation
299. AU - LeSchack, L.A.; Long, J.B.  
TI - Transportation studies show best way to breach jungle mining areas  
OS - Development & Resources Transportation Co, Silver Spring, MD  
SO - Eng Mining J, v 172, n 2, Feb 1971, p 89-93  
IT - mineral exploration
300. AU - Hobson, D.E.; O'Brien, L.J.  
TI - Bias balancing interaxle differential for constant 4-wheel drive

- SO - SAE Pap 71016 for meeting June 7-11, 1971, 6 p  
IT - automobiles - axles
301. AU - Schreiner, B.G.  
TI - Mobility Exercise A (MEXA) Field Test Program 1  
SO - U.S. Army Waterways Exp Sta, Corps Eng, Tech Rep M-70-11, Mar 1971, 112 p  
IT - military vehicles
302. AU - Kaplan, M.H.  
TI - Survey of Lunar Surface Mobility Systems  
OS - Pennsylvania State Univ, University Park, PA  
SO - Automatic Control in Space, 3, Proc 3rd IFAC Conf Mar 2-6, 1970. Instrument Society of America, 1970, p 175-82  
IT - space vehicles - lunar landing
303. AU - Cole, L.M.  
TI - Multiservice transport systems for urban mobility  
OS - Univ of Texas, Austin, TX  
SO - ASCE J Urban Plann Develop Div, v 97, m UPI paper 8025, Apr 1971, p 31-9  
IT - city planning - transportation; transportation; rapid transit; subways
304. AU - Richardson, B.Y.; Cooper, A.W.  
TI - Effects of articulated steering on tractive performance of a rubber-tired logging tractor  
OS - U.S. Forest Service, Arlington, VA  
SO - Trans; Amer Soc Agr Eng, Gen Ed, v 13, n 5, Sept-Oct 1970 p 633-5  
IT - logging; tractors - agricultural; soils - trafficability
305. AU - Le Schack, L.A.; Long, J.B.  
TI - Tracked vehicle transportation and the prediction of vehicle mobility in the jungle  
OS - Development & Resources Transportation Co, Silver Springs, MD  
SO - Int Soc for Terrain-Vehicle Systems, Inc, Proc of the 3rd Int Conf, July 9-12 1969, Essen, West Germany, Haus der Technik, Essen, v 2, 1969, p 243-71  
IT - vehicles - off-road operation; tractors
306. AU - King, C.W.; Collins, G.C.  
TI - Proving ground testing of a brushless electric-wheel system  
SO - SAE Pap 710155 for meeting Jan 11-15, 1971, 14 p  
IT - military vehicles - electric; motor trucks - electric
307. AU - Rountree, J.L.H.; Bowman, D.W.; Silberman, R.J.  
TI - Ocean-floor bell tractor  
OS - Wilson Industries, Inc, Houston, TX  
SO - Mech Eng, v 92, n 7, July 1970, p 23-27  
IT - diving apparatus; submersibles; oceanography

308. AU - Snider, W.L.  
TI - Desert testing of military vehicles  
SO - SAE-Paper 690354 for meeting Apr 15-16, 1969, 11 p  
IT - military vehicles - testing
309. AU - Sachs, E.H.K.  
TI - Proceedings of First International Conference on Vehicle Mechanics, Detroit, MI, July 16-18, 1968  
SO - Wayne State Univ, Detroit, MI, 1969, 733 p  
IT - vehicles; automobiles; motor trucks; agricultural machinery; military vehicles; naval vessels
310. AU - Denn, P.D.; Bradley, C.D.  
TI - New concepts in off-road vehicles  
OS - U.S. Army Tank Automotive Command, Warren, MI  
SO - Mech Eng, v 92, n 1, Jan 1970, p 12-18  
IT - vehicles - off-road operation; military vehicles
311. AU - Robinson, J.H.; Smith, R.P.; Richardson, B.Y.  
TI - Trafficability tests with rubber-tired log skidder  
SO - U.S. Waterways Experiment Station Misc Paper M-69-1, Jan 1969, 57 p  
IT - military vehicles - soil factors; cars; roads and streets; tractors
312. AU - Lynn, D.K.; McCormick, J.B.; Bobbett, R.E.; Derouin, C.R.; Nachamkin, J.; Kerwin, W.  
TI - Determination of vehicle rolling resistance and aerodynamic drag  
OS - Los Alamos Sci Lab, NM  
SO - IEEE Veh Technol Conf, 29th, Conf Rec of Pap, Arlington Heights, IL, Mar 27-30, 1979, Publ by IEEE (Cat n 79CH1378-9VT), New York, NY, 1979. Available from IEEE Serv Cent, Piscataway, NJ, p 292-295  
IT - automobiles - friction; aerodynamics - drag; storage battery vehicles - measurements
313. AU - Pentyukhov, V.I.  
TI - Airplane takeoff from unpaved airdromes  
SO - Sov Aeronaut, v 20, n 4, 1977, p 108-111  
IT - aircraft - takeoff
314. AU - Coddinton, D.M.  
TI - Inflation pressure loss in tubless tires; effects of tire size, service, and construction  
OS - Exxon Chem Co, Linden, NJ  
SO - Rubber Chem Technol, v 52, n 5, Nov-Dec, 1979, p 905-919  
IT - tires - tubeless; rubber testing; product design; mathematical techniques; identifiers - tire testing; inflation pressure loss; tire size

315. AU - Gee-Clough, D.  
 TI - Effect of wheel width on the rolling resistance of rigid wheels in sand  
 OS - Natl Inst of Agric Eng, Bedford, England  
 SO - J Terramech, v 15, n 4, Dec 1978, p 161-184  
 IT - wheels; vehicles - soil factors; sand and gravel; tires - traction
316. AU - Lou, A.Y.C.  
 TI - Relationship of tire rolling resistance to the viscoelastic properties of the tread rubber  
 OS - Firestone Tire & Rubber Co, Akron, Ohio  
 SO - Tire Sci Technol, v 6, n 3, Aug 1978, p 176-188  
 IT - tires - friction, viscoelasticity
317. AU - Clark, S.K.  
 TI - Rolling resistance of pneumatic tires  
 OS - Univ of Mich, Ann Arbor, MI  
 SO - Tire Sci Technol, v 6, n 3, Aug 1978, p 163-175  
 IT - tires - friction; fuel economy
318. AU - Velinsky, S.A.; White, R.A.  
 TI - Increased vehicle energy dissipation due to changes in road roughness with emphasis on rolling losses  
 OS - Univ of Ill, Urbana, IL  
 SO - SAE Prepr n 790653 for meeting Jun 11-15, 1979, 13 p  
 IT - roads and streets - roughness measurement; mathematical models
319. AU - Tarpinian, H.D.; Nybakken, G.H.; Mishory, J.  
 TI - Fuel saving passenger tire  
 OS - Uniroyal Tire Co  
 SO - SAE Prepr n 790726 for meeting Jun 11-15, 1979, 13 p  
 IT - automobiles - tires; fuel economy
320. AU - Corcoran, P.T.  
 TI - Development of rubber tire mobility prediction  
 OS - Caterpillar Tractor Co, Peoria, IL  
 SO - Pap ASAE for Summer meeting, Utah State Univ, Logan, UT, Jun 27-30, 1978. Publ by ASAE, St. Joseph, MI, 1978 Pap 78-1042, 9 p  
 IT - tires - traction; agricultural machinery; earthmoving machinery - tires
321. AU - Klein, R.E.; Sehitoglu, H.  
 TI - Determination of vehicle rolling resistance and aerodynamic drag  
 OS - Univ of IL at Urbana-Champaign, IL  
 SO - IEEE Veh Technol Conf, 29th, Conf Rec of Pap, Arlington Heights, IL, Mar 27-30, 1979, Publ by IEEE (Cat n 79CH1378-9VT), New York, NY, 1979. Available from IEEE Serv Cent, Piscataway, NJ, p 296-301  
 IT - automobiles - friction; aerodynamics; drag

322. AU - Brown, C.; Gusakov, I.  
 TI - mathematical technique for predicting equilibrium rolling resistance of tires for short duration tests  
 OS - Calspan Corp, Adv Technol Cent, Buffalo, NY  
 SO - SAE Prepr n 790118 for meeting Feb 26-Mar 2, 1979, 8 p  
 IT - tires - testing
323. AU - Tillinger, D.E.; Weber, J.R.; Strowe, R.H.  
 TI - Inter-test facility rolling resistance correlation via control tire concept and computer multiple regression modeling  
 OS - Gen Tire & Rubber Co  
 SO - SAE Prepr n 790117 for meeting Feb 26-Mar 2, 1979, 6 p  
 IT - tires - testing; mathematical models
324. AU - Hetherington, J.G.; Littleton, I.  
 TI - Rolling resistance of towed, rigid wheels in sand  
 SO - R Mil Coll of Sci, Swindon, England  
 IT - wheels; soil mechanics; friction; sand and gravel
325. TI - Fighting rolling resistance in tires  
 SO - Mach Des, v 51, n 1, Jan 11, 1979, p 30-31, 33-34  
 IT - tires - hysteresis; fuel economy; automobiles - fuel economy
326. AU - Karnopp, D.  
 TI - Power requirements for traversing uneven roadways  
 OS - Univ of Calif, Davis, CA  
 SO - Veh Syst Dyn, v 7, n 3, Sep 1978, p 135-152  
 IT - vehicles - springs and suspension
327. AU - Garrett, K.  
 TI - Tyre trends for commercials  
 SO - Automot Eng (London), v 3, n 5, Oct-Nov 1978, p 57-59  
 IT - tires; motor trucks - tires
328. AU - Borcherts, R.H.; Stadler, H.L.; Brehob, W.M.; Auiler, J.E.  
 TI - Improvements in automotive fuel economy  
 OS - Ford Mot Co, Dearborn, MI  
 SO - Energy (Oxford) v 3, n 4, Aug 1978, p 439-449  
 IT - automobiles - fuel economy; aerodynamics - drag; product design - weight control; tires; automobile engines - fuel economy; automotive engineering - United States
329. AU - Clark, S.K.; Schuring, D.J.  
 TI - Interlaboratory tests for tire rolling resistance  
 OS - Univ of Mich, Ann Arbor, MI  
 SO - SAE Prepr n 780636 for meeting Jun 5-9, 1978, 17 p  
 IT - tires - testing; materials testing apparatus - reviews; statistical methods - applications; mechanical variables measurement - forces



AD-A108 228

COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH

F/6 15/5

MOBILITY BIBLIOGRAPHY. (U)

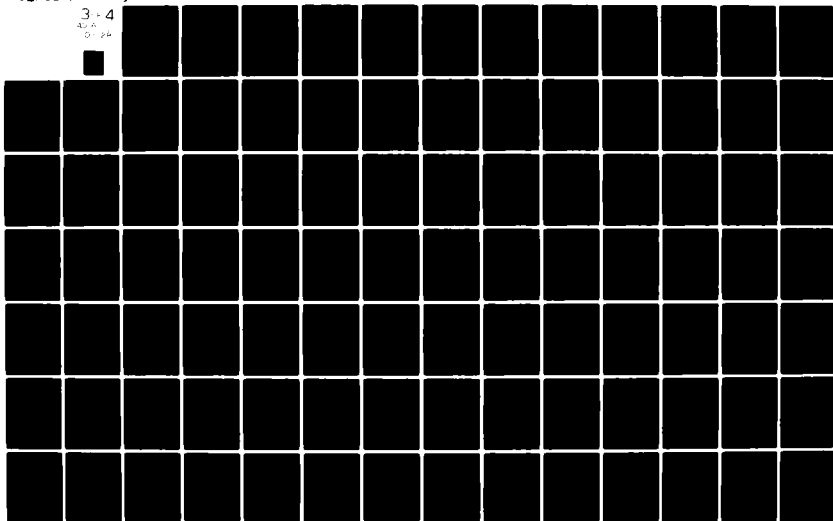
NOV 81 N LISTON, M HUTT, L WHITE

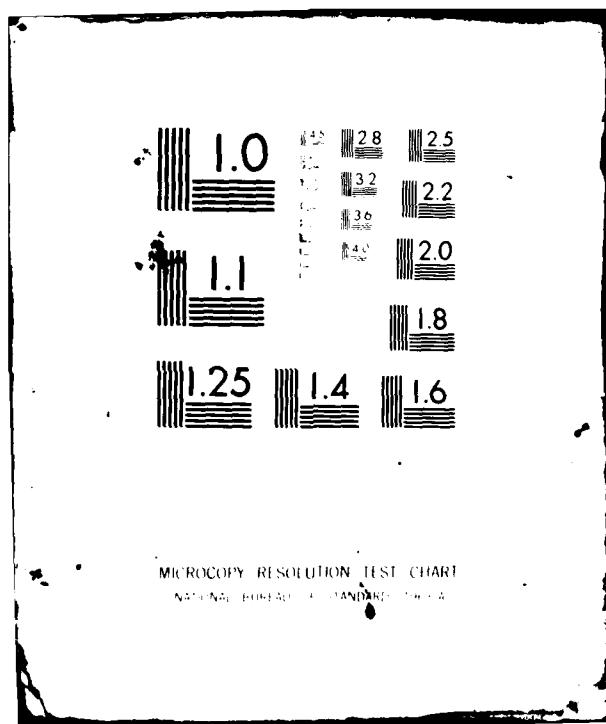
CRREL-SR-81-29

NL

UNCLASSIFIED

3-4  
4-6  
5-6





330. AU - Lloyd, S.E.  
 TI - Development of a flat surface tire rolling resistance facility  
 SO - SAE Prepr n 780635 for meeting Jun 5-9, 1978, 9 p  
 IT - tires - testing; materials testing apparatus - design; mechanical variables measurement - forces
331. AU - Lippmann, S.A.; Oblizajek, K.L.; Metters, J.J.  
 TI - Sources of rolling resistance in radial ply tires  
 OS - Uniroyal Tire Co, Detroit, MI  
 SO - SAE Prepr n 780258 for meeting Feb 27-Mar 3, 1978, 13 p  
 IT - automobiles - tires
332. AU - Smith, J.R.; Tracy J.C.; Potter, D.S.  
 TI - Tire rolling resistance-speed dependent contribution  
 SO - SAE Prepr n 780255 for meeting Feb 27-Mar 3, 1978, 8 p  
 IT - automobiles - tires
333. AU - McGrew, J.F.  
 TI - Multimode vehicle performance instrument  
 SO - SAE Prepr n 780149 for meeting Feb 27-Mar 3, 1978, 5 p  
 IT - automobiles - performance; acceleration - measurements; computers - microprocessor - applications; tachometers - applications; electric inverters - applications
334. AU - Tielking, J.T.; Schapery, R.A.  
 TI - Energy loss in an analytical membrane tire model  
 OS - Tex A&M Univ, College Station, TX  
 SO - Tire Sci Technol, v 5, n 3, Aug 1977, p 136-151  
 IT - tires
335. AU - Della-Moretts, L.  
 TI - Elementary transformation of tire - slip and soil shear stress/strain test curves  
 OS - USDA, For Serv, Equip Dev Cent, Washington, D.C.  
 SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977 p 155-158  
 IT - tires - traction; soil mechanics; roads and streets - rural
336. AU - Phelps, R.E.; Mingle, J.G.  
 TI - Pavement and tire rolling resistance coefficients for vehicle energy prediction  
 OS - Oreg State Univ, Corvallis, OR  
 SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977 p 123-132  
 IT - tires - traction; pavements; motor trucks; energy utilization - mathematical models
337. AU - Vorachek, J.J.; Dill, R.J.; Montag, R.J.  
 TI - Effect of passenger tire reinforcing materials on rolling resistance

- OS - Goodyear Tire & Rubber Co  
 SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977 p 169-178  
 IT - tires - testing; energy utilization; materials
338. AU - Bekker, M.G.; Semonin, E.V.  
 TI - Note on tire rolling resistance due to test wheel curvature  
 SO - Tire Sci Technol, v 5, n 2, May 1977, p 119-122  
 IT - tires - testing
339. AU - Trivisonno, N.M.  
 TI - Applications of tire thermography to rolling resistance  
 OS - B.F. Goodrich Co  
 SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 103-109  
 IT - tires - thermal effects; thermography; mathematical techniques - finite difference method
340. AU - Stiebel, A.  
 TI - What's needed to improve steady state test methods  
 OS - Uniroyal Tire Co, Detroit, MI  
 SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 39-48  
 IT - tires - testing; energy utilization - measurements
341. AU - Korst, H.H.; Funfsinn, M.A.  
 TI - Determination of effective rolling resistance by coastdown experiments on smooth and rough roads  
 OS - Univ of Ill, at Urbana-Champaign, IL  
 SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 133-141  
 IT - tires - testing; roads and streets - roughness measurement
342. AU - Hunt, J.D.; Walter, J.D.; Hall, G.L.  
 TI - Effect of tread polymer variations on radial tire rolling resistance  
 OS - Firestone Tire & Rubber Co, Cent Res Lab, Akron, OH  
 SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 161-168  
 IT - tires - testing; energy utilization; plastics
343. AU - Thompson, G.D.; Torres, M.  
 TI - Variations in tire rolling resistance a real world information need  
 OS - U.S. EPA, Washington, D.C.

- SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 49-63  
IT - tires; automobiles - fuel economy
344. AU - Prevorsek, D.C.; Kwon, Y.D.; Sharma, R.K.  
TI - Tire rolling resistance via viscoelastic analysis of the components  
OS - Chem Res Cent, Allied Chem Corp  
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20 1977. Publ by SAE (P-74), Troy, MI, 1977, p 75-86  
IT - tires; viscoelasticity - analysis; heat transfer
345. AU - DeRaad, L.W.  
TI - Influence of road surface texture on tire rolling resistance  
OS - GM Corp, Warren, MI  
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 143-149  
IT - tires; roads and streets - roughness measurement
346. AU - Padovan, J.  
TI - Numerical simulation of rolling tires  
OS - Univ of Akron, OH  
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 87-94  
IT - tires - mathematical models; energy utilization; mathematical techniques - finite element method
347. AU - Klamp, W.K.  
TI - Power consumption of tires related to how they are used  
OS - McCreary Tire & Rubber Co  
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 5-11  
IT - tires; automobiles - energy utilization
348. AU - Campbell, K.L.  
TI - Comparison of radial and non-radial tire construction with respect to rolling resistance and vehicle fuel economy  
OS - Firestone Tire & Rubber Co, Akron, OH  
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 13-19  
IT - tires, automobiles - fuel economy; motor trucks - fuel economy
349. AU - Vodyanik, I.I.  
TI - Rolling resistance of wheel with pneumatic tires  
OTI - Soprotivlenie Sazheniyu Koles S Pnevmaticheskimi Shinami.

- SO - Izv Vyssh Uchebn Zaved Mashinostr, n 10, 1977, p 115-118  
 IT - tires; rheology
350. TI - Tire rolling losses and fuel economy  
 OS - SAE, Highw Tire Comm, Troy, MI  
 SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, 202 p  
 IT - tires; energy utilization; automobiles - fuel economy; viscoelasticity - analysis; motor trucks - fuel economy; roads and streets- roughness measurement
351. AU - Viergutz, O.J.; Wakeley, H.G.; Dowers, L.  
 TI - Automobile in-use tire inflation survey  
 OS - Ill Inst of Technol, Chicago, SAE Prepr n 780256 for meeting Feb 27-Mar 3, 1978, 8 p  
 IT - automobiles, tires, wear, fuel economy
352. AU - Luchter, S.; Daye, C.J.  
 TI - Comparing alternative methods of improving fuel economy  
 OS - DOT, Washington, D.C.  
 SO - Proc Intersoc Energy Convers Eng Conf 12th, Washington, D.C., Aug 28-Sep 2 1977. Publ by ANS (IEEE Cat n 77CH12633 ENERGY), La Grange Park, IL, 1977 v 1, Pap 779001, p 2-9  
 IT - automobiles, fuel economy
353. AU - Carson, R.W.  
 TI - Traction drives update  
 SO - Power Transm Des, v 19, n 11 Nov 1977 p 37-42  
 IT - mechanical drive, power transmission, variable speed
354. AU - Callahan, J.M.  
 TI - Tires roll up the fuel savings  
 SO - Automot Ind, v 156, n 8, May 15 1977 p 27-31  
 IT - tires, research, automobiles, fuel economy
355. AU - Schuring, D.J.  
 TI - Energy loss of tires on twin rolls, drum, and flat roadway - a uniform approach  
 OS - Firestone Tire & Rubber Co, Akron, OH  
 SO - SAE Prepr n 770875 for meeting Sep 26-30 1977 9 p  
 IT - tires
356. AU - Gusakov, I.  
 TI - Measuring skid resistance of passenger car tires on an indoor facility  
 OS - Calspan Corp  
 SO - Transp Res Board Transp Res Rec n 621 1976 p 55-66  
 IT - automobiles, skidding, roads and streets, skid resistance, tires

357. AU - Shupe, D.S.  
 TI - Overview - energy and the automobile  
 OS - Univ of Cincinnati, Ohio  
 SO - ASME Pap n 77-RC-5 for meeting, May 16-18 1977 11 p  
 IT - automobiles, fuel economy, automobile engines, exhaust gases, air pollution
358. AU - Gusakov, I.; Schuring, D.J.  
 TI - Power loss of truck tires under equilibrium and transient conditions  
 OS - Calspan Corp  
 SO - Proc from the SAE Highw Tire Noise Symp, San Francisco, CA, Nov 10-12 1976 Publ by SAE (p-70), Warrendale, PA, 1977 Pap 762030 p 227-239  
 IT - motor trucks, tires, noise, noise abatement, acoustic variables measurement
359. AU - Dwyer, M.J.; McAllister, M.; Evernden, D.W.  
 TI - Comparison of the tractive performance of a tractor driving wheel during its first and second passes in the same track  
 OS - Natl Inst of Agric Eng, Silsoe, Bedford, England  
 SO - J Terramech, v 14, n 1, Mar 1977, p 1-10
360. AU - Shepherd, P.D.  
 TI - Effect of a tire's reinforcing material on rolling resistance  
 OS - Goodyear Tire & Rubber Co  
 SO - SAE Prepr n 770333 for meeting, Feb 28-Mar 4 1977 14 p  
 IT - automobiles, tires, tires, traction, fuel economy
361. AU - Gardner, E.R.  
 TI - Tires: construction and design, properties, performance, testing  
 OS - Avon Process Polymers Ltd, Melksham, Wiltshire, England  
 SO - Prog Rubber Technol, v 39, 1976, p 73-91  
 IT - tires, physical properties, product design, rubber testing, wear of materials, legislation
362. AU - Liles, A.W.; Fetterman, G.P., Jr.  
 TI - Selection of driving cycles for electric vehicles of the 1990's  
 OS - Exxon Enterp Inc, Florham Park, NJ  
 SO - Intersoc Energy Convers Eng Conf, 11th, Proc, State Line, Nev, Sep 12-17 1976 Publ by AIChE, New York, NY, 1976, v 1, SAE Pap 769066, p 390-395  
 IT - storage battery vehicles, calculations
363. AU - Walston, W.H., Jr.; Buckley, F.T., Jr.; Marks, C.H.  
 TI - Test procedures for the evaluation of aerodynamic drag on full-scale vehicles in windy environments  
 OS - Univ of MD, College Park  
 SO - SAE Prepr n 760106 for meeting Feb 23-27 1976, 9 p  
 IT - motor trucks, design, aerodynamics, drag, trailers, design

364. AU - Dayman, B., Jr.  
 TI - Tire rolling resistance measurements from coast-down tests  
 OS - Jet Propul Lab  
 SO - SAE Prepr n 760153 for meeting, Feb 23-27 1976, 11 p  
 IT - automobiles, tires, testing
365. AU - Schuring, D.J.  
 TI - Energy loss of pneumatic tires under freely rolling, braking, and driving conditions  
 OS - Calspan Corp, Buffalo, NY  
 SO - Tire Sci Technol v 4 n 1 Feb 1976 p 3-15  
 IT - tires
366. AU - Rogers, T.H.; Finelli, A.F.; Pearson, C.J.; Chung, D.A.  
 TI - Flex requirement of cast urethane elastomers for solid industrial tires  
 OS - Goodyear Tire & Rubber Co, Akron, OH  
 SO - J Elastomers Plast v 8 n 1 Jan 1976 p 116-131  
 IT - polyurethanes, casting, tires, manufacture, rubber, synthetic, elasticity, materials testing
367. AU - Costin, F.  
 TI - Aerodynamics of the modern car  
 OS - Automot Eng (London), v 1, n 1, Oct 1975, p 29-32  
 IT - automobiles, performance, aerodynamics, drag
368. AU - Maryniak, J.  
 TI - Zagadnienia aerodynamiki pojazdow samochodowych. Some aerodynamic problems of motor cars  
 SO - Arch Budowy Masz, v 22, n 3, 1975, p 271-288  
 IT - automobiles, design
369. AU - Johnson, L.  
 TI - Mobility equations for pneumatic tire performance in soft clay soils  
 OS - Cent Int de Agric Trop, Cali, Colombia  
 SO - ASAE Pap, 68th annual meeting, Univ of California, Davis, Jun 22-25, 1975 Pap 75-1013, 24 p. Publ by ASAE, St. Joseph, MI, 1975  
 IT - tires, traction, soils, trafficability, statistical methods, mechanical variables measurement, torques
370. AU - Kirkwood, T.F.; Lee, A.D.  
 TI - Generalized model for comparing automobile design approaches to improved fuel economy  
 OS - RAND, Santa Monica, CA  
 SO - Rand Corp Rep R-1562-NSF, Jan 1975, 139 p  
 IT - automobiles, fuel economy, mathematical models
371. AU - Sainsbury, J.H.  
 TI - Tyre testing  
 OS - Firestone Europe



- SO - Inst of the Rubber Ind Annu Natl Conf: Tyres, 1st, Tech Sess,  
Pap, Stratford-upon-Avon, England, Nov 7-9 1973 p 4b1-4b15.  
Sponsored by IRI, London, England, 1973  
IT - tires, physical properties, materials testing
372. AU - Crum, W.B.  
TI - Road and dynamometer tire power dissipation  
OS - Ford Mot Co  
SO - SAE Prepr n 750955 for meeting Oct 13-17 1975, 12 p  
IT - automobiles, tires, fuel economy, dynamometers
373. AU - Bekker, M.G.; Semonin, E.V.  
TI - Motion resistance of pneumatic tyres  
SO - J Automot Eng v 6 n 2 Apr 1975 p 6-10  
IT - tires, mathematical models
374. AU - Crum, W.B.; McNall, R.G.  
TI - Effects of tire rolling resistance on vehicle fuel consumption  
OS - Ford Mot Co, Dearborn, MI  
SO - Tire Sci Technol v 3 n 1 Feb 1975 p 3-15  
IT - tires, testing, vehicles, fuel economy
375. AU - Glemming, D.A.; Bowers, P.A.  
TI - Tire testing for rolling resistance and fuel economy  
OS - Goodyear Tire & Rubber Co, Akron, OH  
SO - SAE Prepr n 750457 for meeting Feb 24-28 1975, 17 p  
IT - automobiles, fuel economy, tires, testing
376. AU - Molinier, R.; Seraphin, L.; Tricot, R.; Castro, R.  
TI - Recent developments and criteria for application of titanium  
alloys for the aircraft industry  
OTI - Developements recents et criteres d'Emploi des alliages de  
titane pour l'Industrie aeronautique  
SO - Rev Metall (Paris), v 71, n 1, Jan 1974, p 1-17  
IT - titanium and alloys, structural, aircraft materials
377. AU - Hirst, E.  
TI - Automobile fuel use and conservation  
OS - Oak Ridge Natl Lab, TN  
SO - J Environ Sys, v 4, n 2, Summer 1974, p 85-95  
IT - fuel economy, automotive fuels
378. AU - Walter, J.D.; Conant, F.S.  
TI - Energy losses in tires  
OS - Firestone Tire & Rubber Co, Akron, OH  
SO - Tire Sci Technol, v 2, n 4, Nov 1974, p 235-260  
IT - tires, fuel economy
379. AU - Marx, J.  
TI - Dissipation of heat of synthetic rolling emulsions  
OTI - Zur waermeabfuhr synthetischer walzemulsionen

- SO - Arch Eisenhuettenwes, v 45, n 9, Sep 1974, p 609-610  
 IT - rolling mill practice, lubrication
380. AU - Khromov, M.K.; Kostin, V.V.  
 TI - Assessment of the dynamic and road-holding properties of tyres on a test drum  
 OS - Tyre Res Inst, USSR  
 SO - Sov Rubber Technol, v 31, n 9, Sep 1972, p 26-28  
 IT - tires, testing, materials testing apparatus mathematical techniques
381. AU - Thomas, P.R.; Till, R.H.  
 TI - Simplified method for the measurement of vehicular rolling resistance  
 SO - SAE Prepr n 740423 for meeting Apr 23-24 1974, 9 p  
 IT - vehicles, off road operation, motor trucks off highway, mechanical variables measurement, acceleration, soils, trafficability
382. AU - Gokmen, A.G.; Powell, D.G.  
 TI - Analysis of viscous aquaplaning of a pneumatic tyre  
 OS - Queen Mary Coll, London, England  
 SO - Can Congr of Appl Mech, 4th, Proc, Pap, Ec Polytech, Montreal, Quebec, May 28-Jun 1 1973 p 871-872  
 IT - tires, skid resistance, roads and streets, skid resistance
383. AU - White, R.A.; Korst, H.H.  
 TI - Generalized method for determining drag coefficient or rolling resistance from coast down tests  
 OS - Univ of IL at Urbana-Champaign  
 SO - Adv in Road Veh Aerodyn, 1973, Pap 2, p 15-23. Publ by BHRA Fluid Eng, Cranfield, Bedford, England, 1973  
 IT - automobiles, stability, aerodynamics, stability
384. AU - Oblizajek, K.L.; Lippmann, S.A.  
 TI - Predicting the tread wear of nondriven front axle tires from laboratory measurements  
 OS - Uniroyal, Inc, Wayne, NJ  
 SO - SAE Prepr n 740073 for meeting Feb 25-Mar 1 1974, 8 p  
 IT - tires, wear, materials testing
385. AU - Pope, R.G.  
 TI - Effect of wheel speed on rolling resistance  
 OS - Royal Military Coll of Science, Shrivenham, Swindon, Wilts, England  
 SO - J Terramech, v 8, n 1, 1971, p 51-8  
 IT - wheels, soils, trafficability
386. AU - Floyd, C.W.  
 TI - Power loss testing of passenger tires

- SO - SAE Pap 710576 for meeting June 7-11 1971, 6 p  
IT - rubber tires, testing
387. AU - White, R.A.; Korst, H.H.  
TI - Determination of vehicle drag contributions from coast-down tests  
SO - SAE Pap 720099 for meeting Jan 10-14 1972, 6 p  
IT - automobiles, wind pressure
388. AU - Kondo, M.; Nagaishi, T.; Seki, K.; Takeda, T.  
TI - Dynamical behaviors of a car when one tyre is punctured simulatively  
OS - Tokyo Inst of Technol, Japan  
SO - Bull JSAE, n 1, 1969, p 52-69  
IT - automobiles, stability, rubber tires
389. AU - Elliott, D.R.; Klamp, W.K.; Kraemer, W.E.  
TI - Passenger tire power consumption  
SO - SAE Pap 710575 for meeting June 7-11 1971, 14 p  
IT - rubber tires
390. AU - Arango, I.; Moriwaki, Y.; Brown, F.  
TI - In-situ and laboratory shear velocity and modulus  
OS - Woodward-Clyde Consult, San Francisco, CA  
SO - Proc of the ASCE Geotech Eng Div Spec Conf: Earthquake Eng and Soil Dyn, Pasadena, CA, Jun 19-21 1978 Publ by ASCE, New York, NY, 1978 v 1 p 198-212
391. AU - Mitchell, J.K.  
TI - In-situ techniques for site characterization  
OS - Univ of CA, Berkeley  
SO - Site Charact & Explor, Proc Spec Workshop, Northwest Univ, Evanston, IL, Jun 12-14 1978 Publ by ASCE, New York, NY, 1979 p 107-129  
IT - soils, testing, instruments
392. AU - Black, W.P.M.  
TI - Strength of clay subgrades: its measurement by a penetrometer  
SO - TRRL Lab Rep n 901, 1979, 12 p  
IT - roads and streets, foundations, pavements, mathematical models, clay, soils, testing
393. AU - Rawat, P.C.; Ramamurthy, T.  
TI - Shear behavior of sand under generalized conditions of stress and strain  
OS - Eng India Ltd, New Dehli  
SO - Indian Geotech J, v 8, n 4, Oct 1978, p 235-269  
IT - sand and gravel, stresses, soil mechanics, geophysics, rock properties, mathematical models, stresses, analysis, materials testing apparatus

394. AU - Woods, R.D.  
 TI - Measurement of dynamic soil properties  
 OS - Univ of MI, Ann Arbor  
 SO - Proc of the ASCE Geotech Eng Div Spec Conf: Earthquake Eng and Soil Dyn, Pasadena, CA, Jun 19-21 1978 Publ by ASCE, New York, NY, 1978, v 1, p 91-178  
 IT - soils, dynamics, measurements, soil dynamics
395. AU - Lade, P.V.  
 TI - Cubical triaxial apparatus for soil testing  
 OS - Univ of CA, Sch of Eng & Appl Sci, Los Angeles  
 SO - Geotech Test J, v 1, n 2, Jun 1978, p 93-101  
 IT - materials testing apparatus, soil mechanics, shear strength, rock mechanics, soils
396. AU - Smith, L.A.; Dumas, W.T.  
 TI - Recording soil penetrometer  
 OS - USDA, Agric Res Serv, Auburn, AL  
 SO - Pap ASAE for annual meeting, Chicago, IL, Dec 15-18, 1975, Pap 75-1519, 14  
 IT - soils, density measurement, potentiometers, transducers
397. TI - Proceedings of the conference on in-situ measurement of soil properties. Specialty conference of the ASCE Geotechnical Engineering Division, Volume 1 and 2, 1975  
 SO - Proc of the Conf on In-Situ Meas of Soil Prop, Spec Conf - of the ASCE Geotech Eng Div, NC State Univ, Raleigh, Jun 1-4 1975 Publ by ASCE, New York, NY, 1975-1976 2 vol, 947 p  
 IT - soils, surveys, soil mechanics, measurements, clay, sand and gravel, instruments
398. AU - Brand, E.W.  
 TI - Back pressure effects on the undrained strength characteristics of soft clay  
 OS - Asian Inst of Technol, Bangkok, Thailand  
 SO - Soils Found, v 15, n 2, Jun 1975, p 1-16  
 IT - soils, consolidation, clay; soil mechanics
399. AU - Bernhardt, K.  
 TI - Method of determining the shear strength of soils with special regard to agricultural soil cultivation  
 OTI - Eine methode zur bestimmung der scherfestigkeit des bodens aus der sicht der landwirtschaftlichen bodenbearbeitung.  
 SO - Wiss Z Tech U, Dresden, v. 23, n. 2, 1974, p 395-399  
 IT - soil mechanics, measurement, agricultural machinery, design, agricultural engineering, desing aids
400. AU - Schoenwald, E.; Frenzel, A.  
 TI - Procedures and laboratory technique methods of cohesive soils, tensile strength determination  
 OTI - Verfahren und labortechnische methoden zur ermittlung der zugfestigkeit von bindigen erdstoffen.

- OS - Bergakad Freiberg, E Ger  
 SO - Neue Bergbautech, v 5, n 6, Jun 1975, p 428-433  
 IT - soils, measurement, measurements, soil mechanics, clay, strength of materials
401. AU - Allard, P.; Grenet, C.  
 SO - Lab Cent Ponts, Chaussees, Bull Liaison Lab Ponts Chaussees n 60, Jul-Aug 1972, p 125-136  
 IT - geophysics, seismic, soil mechanics, civil, soils, boring
402. TI - Magic carpet evaluation study  
 OS - Municipality of metropolitan Seattle, Wash. Urban Mass Transportation Administration, Washington, D.C.  
 SO - May 77, 110p, PB271214
403. AU - Christensen, D.E.; Ewing, S.S.; Davis, C.F.; Goodson, F.D.; Strickland, R.I.  
 TI - Studies performed to determine suspension needs for lance limited mobility launcher  
 OS - Army Missile Command Redstone Arsenal Ala Launch and Handling Equipment Design Branch  
 SO - 5 Apr 63, 62p, AD475804
404. AU - Bishop, A.W.; Green, G.E.; Garga, V.K.; Andresen, A.; Brown, J.D.  
 TI - New ring shear apparatus and its application to the measurement of residual strength  
 OS - Imperial Coll, London, England  
 SO - Norg Geotek Inst, Publ n 93, 1972, 56 p  
 IT - soil mechanics, soils, testing
405. AU - Collard, M.  
 TI - Reduction of the results of field-strength measurements to standardised conditions, for the purpose of studying LF and MF ionospheric propagation  
 OS - Univ of Brussels, Belg  
 SO - EBU Rev Tech, v 141, Oct 1973, p 229-241  
 IT - electromagnetic waves, propagation in Ionosphere, electric field measurement, electric measurements
406. AU - Holubec, I.; D'Appolonia, E.  
 TI - Effect of particle shape on the engineering properties of granular soils  
 OS - E. D'Appolonia Consult Eng, Inc, Pittsburgh, PA  
 SO - ASTM Spec Tech Publ 523, 1973, for meeting, Los Angeles, CA, Jun 25-30 1972 p 304-318  
 IT - sand and gravel, density measurements
407. AU - Krinitzsky, E.L.  
 TI - X-Ray measurement of soil densities in models

- OS - U.S. Army Engineers, Waterways Experiment Station, Vicksburg, MS  
 SO - J Mater, v 7, n 2, Jun 1972, p 119-130  
 IT - soil mechanics, materials testing, nondestructive testing
408. AU - Richards, A.F.; McDonald, V.J.; Olson, R.E.; Keller, G.H.  
 TI - In-place measurement of deep sea soil shear strength  
 OS - Lehigh Univ, Bethlehem, PA  
 SO - ASTM Spec Tech Publ 501, 1972, p 55-68  
 IT - undersea technology, soil mechanics
409. AU - Parry, R.H.G.; Bishop, A.W.; Marsland, A.; Billam, J.; Foster, R.H.; Sides, G.R.; Rowe, P.W.; Barden, L.; Bennett, D.H.; Dyson, S.; Thornton, C.; Harkness, R.M.; Butterfield, R.; Chaplin, T.K.; Simons, N.E.; Green, G.E.  
 TI - Stress-strain behaviour of soils  
 SO - Stress-Strain Behaviour of Soils, Proceedings of the Roscoe Memorial Symposium, Cambridge Univ, England, Mar 29-31 1971 G.T. Foulis & Co, Ltd, Oxfordshire, England, 1972, 761 p  
 IT - soil mechanics, clay, sand
410. AU - Ehrigott, J.Q.  
 TI - Development of a dynamic high pressure triaxial test device  
 OS - Waterways Experiment Station, Vicksburg, MS  
 SO - Soc Mining Eng, AIME, Proc 12th Symp on Rock Mechanics, Nov 16-18 1970, Rolla, MO, 1971, p 195-219  
 IT - rock mechanics, strength of materials, soil mechanics
411. AU - Barata, F.E.  
 TI - Effect of heating on bearing capacity of highway subgrades  
 OS - Federal Univ of Rio de Janeiro, Brazil  
 SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 141-149  
 IT - roads and streets, embankments, soil mechanics, soils, compaction, soils, temperature measurement
412. AU - Mitchell, J.K.  
 TI - Temperature effects on engineering properties and behavior of soils  
 OS - Univ of CA, Berkeley  
 SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 9-28  
 IT - soils, surveys, roads and streets, stabilization, soil mechanics, soils, frost effect, soils, temperature measurement
413. AU - Sherif, M.A.; Burrous, C.M.  
 TI - Temperature effects on unconfined shear strength of saturated, cohesive soil  
 SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 267-272  
 IT - soils, temperature measurement, clay, soil mechanics, soils, moisture

- OS - U.S. Army Engineers, Waterways Experiment Station, Vicksburg, MS  
 SO - J Mater, v 7, n 2, Jun 1972, p 119-130  
 IT - soil mechanics, materials testing, nondestructive testing
408. AU - Richards, A.F.; McDonald, V.J.; Olson, R.E.; Keller, G.H.  
 TI - In-place measurement of deep sea soil shear strength  
 OS - Lehigh Univ, Bethlehem, PA  
 SO - ASTM Spec Tech Publ 501, 1972, p 55-68  
 IT - undersea technology, soil mechanics
409. AU - Parry, R.H.G.; Bishop, A.W.; Marsland, A.; Billam, J.; Foster, R.H.; Sides, G.R.; Rowe, P.W.; Barden, L.; Bennett, D.H.; Dyson, S.; Thornton, C.; Harkness, R.M.; Butterfield, R.; Chaplin, T.K.; Simons, N.E.; Green, G.E.  
 TI - Stress-strain behaviour of soils  
 SO - Stress-Strain Behaviour of Soils, Proceedings of the Roscoe Memorial Symposium, Cambridge Univ, England, Mar 29-31 1971 G.T. Foulis & Co, Ltd, Oxfordshire, England, 1972, 761 p  
 IT - soil mechanics, clay, sand
410. AU - Ehrgott, J.Q.  
 TI - Development of a dynamic high pressure triaxial test device  
 OS - Waterways Experiment Station, Vicksburg, MS  
 SO - Soc Mining Eng, AIME, Proc 12th Symp on Rock Mechanics, Nov 16-18 1970, Rolla, MO, 1971, p 195-219  
 IT - rock mechanics, strength of materials, soil mechanics
411. AU - Barata, F.E.  
 TI - Effect of heating on bearing capacity of highway subgrades  
 OS - Federal Univ of Rio de Janeiro, Brazil  
 SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 141-149  
 IT - roads and streets, embankments, soil mechanics, soils, compaction, soils, temperature measurement
412. AU - Mitchell, J.K.  
 TI - Temperature effects on engineering properties and behavior of soils  
 OS - Univ of CA, Berkeley  
 SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 9-28  
 IT - soils, surveys, roads and streets, stabilization, soil mechanics, soils, frost effect, soils, temperature measurement
413. AU - Sherif, M.A.; Burrous, C.M.  
 TI - Temperature effects on unconfined shear strength of saturated, cohesive soil  
 SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 267-272  
 IT - soils, temperature measurement, clay, soil mechanics, soils, moisture

414. TI - Effects of temperature and heat on engineering behavior of soils. Proc of International Conference, Washington, D.C., Jan 16 1969  
SO - Nat Acad Sciences, Washington, D.C., Highway Research Board Special Report 103, 1969, 300 p  
IT - soil mechanics, roads and streets, stabilization, rock mechanics, soils, consolidation
415. AU - Forsyth, R.W.; Forsyth, J.P.  
TI - Helicopter ground mobility system (HGMS) concept formulation and selection  
OS - Vehicle Systems Development Corp, Upland, CA  
SO - Final technical rept., Jun 77, ADA047507, 96 p
416. AU - Green, C.E.  
TI - Event dice throw, mobility experiments  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Final rept., WES-MP-M-77-12; ADA046146
417. TI - U.S. Army test and evaluation command development test II (EP) - common test operations research procedures "logistics-over-the-shore"  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 2 Mar 76, 32 p, ADA042716
418. TI - Road tests of mobile weapons  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - Final rept. on test operations procedure, 1977, ADA043540
419. AU - Stoll, J.K.; Randolph, D.D.; Rula, A.A.  
TI - Relative off-road mobility performance of six wheeled and four tracked vehicles in selected terrain  
OS - Army Waterways Experiment Stations, Vicksburg, MS  
SO - Final rept., WES-TR-M-70-4, ADA040175, 1970
420. AU - Difiglio, C.; Kulash, D.  
TI - Marketing and mobility. Report of a panel of the interagency task force on motor vehicle goals beyond 1980  
OS - Faucett (Jack) Associates, Inc., Chevy Chase, MD. Federal Energy Administration, Washington, D.C. Office of Industrial Programs  
SO - Interim rept., PB269106, 1976, 240 p
421. AU - Karafiath, L.L.  
TI - Development of a mathematical model for the prediction of the off-road performance of 4x4 vehicles  
OS - Grumman Aerospace Corp, Bethpage, NY, Research Dept  
SO - Final rept., 1977, ADA039974, 50 p
422. AU - Woods, H.K.; Shamburger, J.H.  
TI - Quantitative description of selected West German terrain for ground mobility



- OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - Final rept., Jan-Nov 68, WES-TR-M-70-6, ADA040174, 1970, 281 p
423. TI - Report of meeting of ARPA advisory committee on mobility environmental research study (2ND) (24-26 February 1964, Vicksburg, Mississippi)  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-670, 1964, AD478994, 203 p
424. AU - Alfriend, T.B.  
 TI - Development of MHU-110/M munitions trailer  
 OS - Aai Corp, Baltimore, MD  
 SO - AD862497, 1968
425. AU - Krenkel, P.A.; Hoadley, P.G.; Carpenter, J.A.  
 TI - The description and classification of hydrologic characteristics for military purposes  
 OS - Vanderbilt Univ, Nashville, TN, Dept of Civil Engineering  
 SO - Contract rept., AEWES-CR-3-23, 1964, AD489876
426. AU - Liston, R.A.; Czako, T.; Haley, P.; Harrison, W.L. Jr.; Hanamoto, B.  
 TI - Mobility environmental research study mobility testing procedures  
 OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab  
 SO - Feb 66, 88 p, WES-CR-3-153, AD800462
427. TI - Service test of load carrying device  
 OS - Army Infantry Board, Fort Benning, GA  
 SO - Final rept., 1965, AD479906, 85 p
428. TI - Mobility environmental research study. A quantitative method for describing terrain for ground mobility. Volume VIII. Terrain factor-family maps of selected areas  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-726-Vol-8, AD487500, 1966, 938 p
429. AU - Hanamoto, B.; Liston, R.A.; Parker, C.B.  
 TI - Terrain criteria in vehicle design  
 OS - Army Tank-Automotive Center, Warren, MI  
 SO - Jun 63, 48 p, AD488300
430. AU - Nuttall, C.J., Jr.; Wilson, C.W.; Werner, R.A.  
 TI - One-pass performance of vehicles on fine-grained soils  
 OS - Wilson Nuttall Raimond Engineers, Inc, Chestertown, MD  
 SO - Jul 66, 134 p, AD487446, WES-CR-3-152
431. AU - Neese, M.P.  
 TI - Service test (retest) of universal engineer tractor-crawler  
 OS - Army Armor and Engineer Board, Fort Knox, KY  
 SO - Final rept., 1 Nov 65-1 Apr 66, AD487400, 92 p

432. AU - Bogdanoff, J.L.; Kozin, F.; Cote, L.J.  
TI - Atlas of off-road ground roughness P.S.D.'S and report on data acquisition technique  
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab  
SO - Technical rept., 1966, AD802503
433. TI - A computer analysis of vehicle dynamics while traversing hard surface terrain profiles  
OS - FMC Corp, San Jose, CA, Ordnance Engineering Div  
SO - Feb 66, 199p, WES-CR-3-155, AD803194
434. AU - Garrett, E.E.  
TI - Comparison of ground mobility characteristics of land-marine interfaces of Florida and Thailand  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-4-829, AD800075, 1966, 79 p
435. TI - US Army test and evaluation command test operations procedure steering  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 9 Jan 76, ADA036033
436. AU - Rush, E.S.  
TI - Effects of soil surface conditions on drawbar pull of a wheeled vehicle  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-MP-M-70-10, ADA-32961, 1970, 25 p
437. AU - Meyer, M.P.  
TI - Trafficability classification of Thailand soils  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-3-753, AD808540, 1967, 149 p
438. TI - Lessons from the Indo-China War. Vol. II  
OS - Battelle Memorial Inst, Columbus, Ohio, Remote Area Conflict Information Center  
SO - 31 May 1955, 366 p, AD805376
439. TI - Evaluation of GOER vehicles in Vietnam (Acl-90/67)  
OS - Army Concept Team in Vietnam, San Francisco, CA 96243  
SO - 26 Jan 1967, 12 p
440. AU - Benn, B.O.; Keown, M.  
TI - An analytical model for predicting cross-country vehicle performance appendix A: instrumentation of test vehicles  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-3-783-App-A, 1967, AD817532, 49 p
441. TI - Engineering design handbook. Automotive series. Automotive suspensions  
OS - Army Materiel Command, Washington, D.C.  
SO - Apr 67, 456 p, AD817023

442. AU - Green, A.J.  
 TI - Performance of soils under tire loads. Report 5. Development and evaluation of mobility numbers for coarse-grained soils  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-666-5, 1967, 93 p
443. AU - Rush, E.S.; Temple, R.G.  
 TI - Trafficability tests in fine-grained soils with two vehicles with 9- to 10-ton wheel loads  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-879, AD811217, 1967
444. AU - Dornbusch, W.K., Jr.  
 TI - Mobility environmental research study, a quantitative method for describing terrain for ground mobility. Volume III. Surface geometry  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-726-Vol-3, AD820788, 1967, 202 p
445. AU - Randolph, D.D.; Robinson, J.H.  
 TI - Mobility performance of towed and self-propelled artillery and related vehicles  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-MP-M-77-1, ADA036 188/1ST, Jan 1977, 283 p
446. AU - Garrett, E.E.; Shamburger, J.H.  
 TI - Mobility environmental research study, a quantitative method for describing terrain for ground mobility. Volume V. Hydrologic geometry  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-726-Vol. 5, AD827290/8ST, Nov 1967, 106 p
447. AU - Webb, W.A.; Doyle, R.W.  
 TI - Development of bomb lift truck, A/S32K-4  
 OS - Aai Corp, Cockeysville, MD  
 SO - Jun 74 67 p, AD922987/3ST
448. AU - McDaniel, A.R.  
 TI - Trafficability predictions in tropical soils. Report 4. Columbia study (July 1962-July 1963)  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-355, AD824 734/8ST, Nov 1967, 77 p
449. AU - Spanski, P.L.  
 TI - Design and fabrication mobility exercise 'A' test rigs  
 OS - Army Tank-Automotive Command, Warren, MI, Land Locomotion Div  
 SO - Dec 67 50 p, AD839671/5ST

450. AU - Willoughby, W.E.  
 TI - A limited study of the performance of an interim 3/4-ton wheel/track convertible test rig, Houghton, MI, and Vicksburg, MS  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-MP-M-74-1, ADA032972/2ST, April 1974, 104 p
451. AU - Gray, G.W.  
 TI - Mhu-12/M trailer special weapon tiedown and mobility tests  
 OS - Air Force Special Weapons Center, Kirtland AFB, New Mexico  
 SO - AFSWC-TR-68-8, AD840057/4ST, Aug 1968, 33 p
452. AU - Green, A.J.; Melzer, K.J.  
 TI - The performance of two boeing-GM wheels (GM VII and GM VIII) for the manned lunar rover vehicle  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-MP-M-71-3, ADA032963/1ST, Feb 1971, 56 p
453. AU - Parks, J.A.; Stoll, J.K.  
 TI - Automation of cross-country locomotion model  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-MP-M-71-7, ADA032964/9ST, Nov 1971, 101 p
454. AU - Wiendieck, K.W.  
 TI - Tests with an experimental wheel on clay  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-MP-M-70-8, ADA032904/5ST, Dec 1970, 23 p
455. AU - Carlson, E.C.  
 TI - Clark ranger forklift (CRF)  
 OS - Army Concept Team in Vietnam, San Francisco, CA 96384  
 SO - Sep 68 40 p, AD842846/8ST
456. AU - Green, A.J.; Knight, S.J.  
 TI - Effect of mold size and other factors on laboratory cone index measurements  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-327, AD841347/8ST, 28 Jan 1959, 36 p
457. AU - Stuller, J.G.; Skea, R.G.  
 TI - Initial production test of modified crane, wheel-mounted, 5-ton, DED, 4x4, rough terrain, H446  
 OS - Materiel Test Directorate, Aberdeen Proving Ground, MD  
 SO - Jan 69, 62 p, AD849379
458. AU - Burgmann, R.A.; Ingebretson, C.O.  
 TI - Initial production test of marginal terrain assault bridge with M113A1 launcher  
 OS - Army Armor and Engineer Board, Fort Knox, KY  
 SO - 6 May 69, 107 p, AD854618

459. AU - Randolph, D.D.  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-TR-M-70-7, ADA032765, 1970, 83 p
460. AU - Murphy, N.R., Jr.; Rula, A.A.  
TI - Mobility exercise A (MEXA) field test program. Report 4. Performance of selected MEXA and military vehicles in vertical obstacles  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-TR-M-70-11-4, ADA032769, 1974, 68 p
461. AU - Clark, S.J.  
TI - Instrumentation for vehicle mobility testing in a tropical environment  
OS - Colorado State Univ, Fort Collins  
SO - WES-CR-3-154, ADA032585
462. AU - Stinson, B.G.  
TI - Evaluation of WES analytical model in selected terrains (XM5591E1 GOER tests at Camp Gagetown, New Brunswick, Canada)  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-TR-M-70-3, 1970, 70 p
463. AU - Cohron, G.T.; Werner, R.A.  
TI - An exploratory study of the effects of terrain surface obstacles on vehicle performance  
OS - Wilson Nuttall Raimond Engineers, Inc, Chestertown, MD  
SO - WES-CR-113-2, ADA032584, 1965, 252 p
464. AU - Robinson, J.H.; Rush, E.S.  
TI - Trafficability tests with major/minor wheel vehicle equipped with 16x14.5-6 tires  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-M-68-4, AD841855, 1968
465. AU - Green, A.J., Jr.  
TI - Pilot study to evaluate the squeeze test for use in vehicle-mobility research  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-4-350, AD841348, 1959
466. AU - Green, J.E.; Knight, S.J.  
TI - Preliminary study of stresses under off-road vehicles  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-4-362, 1959, AD841349
467. AU - Knight, S.J.  
TI - Vehicle mobility  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-4-241, AD841346, 1957, 17 p

468. AU - Foster, C.R.; Knight, S.J.  
 TI - Vehicle mobility on soft soils  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-147, AD841344, 1956
469. AU - Thompson, A.B.  
 TI - A pilot study of WES earth pressure cell action in comparatively soft soil  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-230-1, AD841345, 1957
470. AU - Stuller, J.; Sinigaglio, B.F.  
 TI - Initial production test of crane-shovel, crawler mounted:  
 DED, 12-1/2-ton, model L-36M, USA Reg. No. 08C81367  
 OS - Materiel Test Directorate, Aberdeen Proving Ground, MD  
 SO - Jan 69, 108 p, AD849316
471. AU - Blackmon, C.A.; Stoll, J.K.  
 TI - An analytical model for predicting cross-country vehicle performance. Appendix B. Vehicle performance in lateral and longitudinal obstacles (vegetation). Volume 1. Lateral obstacles  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-783-1, AD846257, 1968
472. TI - Trip report - SK-5 air cushion vehicle  
 OS - Army Combat Developments Command, San Francisco, CA Liaison detachment  
 SO - AD849055/9ST
473. AU - Dais, J.L.  
 TI - Analysis of soil indentation by a translating grouser plate  
 OS - Army Tank-Automotive Command, Warren, MI, Land Locomotion Div  
 SO - AD845204/7ST
474. TI - Executive dummy of the transportation-75 derivative study  
 OS - Army Combat Developments Command Transportation, Fort Eustis, VA  
 SO - Jun 69, 33 p, AD854990
475. AU - Durso, J.P., Jr.; Wayne, R.A.  
 TI - Product improvement test of T132E1 snow pads for M578 recovery vehicle under arctic winter conditions  
 OS - Army Arctic Test Center, Fort Greely, Alaska  
 SO - Apr 69, 67 p, AD855243
476. TI - Trip report XM-571 articulated cargo carrier evaluation  
 OS - Army Combat Development Command, San Francisco, CA, Liaison detachment  
 SO - 12 May 69, 8 p, AD853752

477. AU - Meizer, K.J.; Swanson, G.D.  
 TI - Performance evaluation of a second-generation elastic loop mobility system  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-TR-M-74-7, 1974, ADA031772
478. TI - Trip report articulated utility carrier - XM-571 (ENSURE 146)  
 OS - Army Combat Developments Command, San Francisco, Ca, Liaison Detachment  
 SO - 11 May 69, 11 p, AD853751
479. TI - Gradeability and side-slope performance  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - 21 Oct 76, 9 p, ADA031702
480. AU - Meyer, M.P.  
 TI - A bibliography with abstracts of U.S. Army Waterways Experiment Station publications related to vehicle mobility  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 Pavements/Soil Trafficability Info Anal Ctr  
 SO - PSTIAC-3, 1976, ADA031924
481. AU - Rishel, E.B., III  
 TI - Marginal terrain assault bridge-launcher M113A1 armored personnel carrier  
 OS - Army Concept Team in Vietnam, APO, San Francisco 96384  
 SO - Nov 69, 36 p, AD863262
482. AU - Schreiner, B.G.; Smith, R.P.; Green, C.E.  
 TI - Performance of riverine utility craft (RUC) in riverine environments  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-M-70-5, AD869011, 1970, 100 p
483. AU - Smith, R.P.; Robinson, J.H.  
 TI - Limited trafficability tests with major/minor wheel vehicle equipped with 20x14-10 tires  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-Misc-Paper-M-69-4, AD859719, 1969, 23 p
484. AU - Klimek, A.  
 TI - Military potential test of canadair fisher vehicle  
 OS - Army General Equipment Test Activity, Fort Lee, VA  
 SO - AD857747, 1967, 138 p
485. TI - Ground effect vehicles in overland operations land combat system-90  
 OS - Army Advanced Materiel Concepts Agency, Alexandria, VA  
 SO - AD868089, 1970

486. AU - Blackmon, C.A.; Stinson, B.G.; Stoll, J.K.  
 TI - An analytical model for predicting cross-country vehicle performance. Appendix D. Performance of amphibious vehicles in the water-land interface (hydrologic geometry)  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-783-D, AD866165, 1970, 51 p
487. TI - Adverse effects of slopes on military operations  
 OS - Army Advanced Materiel Concepts Agency, Alexandria, VA  
 SO - 20 Sep 68, 55 p, AD867772
488. AU - Witney, B.D.  
 TI - The theory of penetration failure in compact soils  
 OS - Army Tank-Automotive Command, Warren, MI, Land Locomotion Div  
 SO - Nov 69, 175 p, AD865062
489. AU - Durham, G.N.  
 TI - Powered wheels in the turned mode operating on yielding soils  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-TR-M-76-9, ADA030701, 1976, 193 p
490. AU - McLean, R.G.; Jent, J.P.  
 TI - Product improvement test of sheridan weapon system, M551 (Arctic/universal track and wide sprocket wheel)  
 OS - Army Armor and Engineer Board, Fort Knox, KY  
 SO - 1 Dec 70, 24 p, AD880582
491. AU - Decell, J.L.  
 TI - Mobility exercise A (MEXA) field test program. Report 3. Performance of MEXA and three military vehicles in lateral obstacles  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-M-70-11-3, AD875940, 1970, 90 p
492. AU - Taylor, D.; Doman, J.J.  
 TI - Truck tractors and semitrailers in MCB operations  
 OS - Naval Civil Engineering Lab, Port Hueneme, CA  
 SO - NCEL-TN-740, 1966, AD876497
493. AU - Blackmon, C.A.  
 TI - An analytical model for predicting cross-country vehicle performance. Appendix F. Soil-vehicle relations on soft clay soils (surface composition)  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-783-F, 1970
494. TI - U.S. Army test and evaluation command development test II (EP) - common test operations procedures, 'standard obstacles'  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - 16 Sep 75, 9 p, ADA029316



495. AU - Gurganious, J.T.  
TI - Portable Battalion Tactical Operations Center (BTOC) testbed design, fabrication, and design engineer test  
OS - Army Land Warfare Lab, Aberdeen Proving Ground, MD  
SO - Feb 73, 71 p, AD912753
496. AU - Shabeisk, J.J.; Putnam, R.  
TI - 1971 Arctic trials of a 10-ton surface effect vehicle  
OS - Naval Ship Research and Development Center, Bethesda, MD  
SO - May 73, 142 p, AD916942
497. AU - Green, C.E.  
TI - Event mixed company III project LN305: effectiveness of craters as barriers to mobility  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-M-73-5, 1973, 44 p, AD910627
498. AU - Allen, C.A.; Frey, B.A.; Rakowski, J.W.; Rinkel, R.C.  
TI - Tactical vehicle pooling in the Corps/Army service area  
OS - Research Analysis Corp, Mclean, VA  
SO - Jul 72, 202 p, AD901900
499. AU - Rula, A.A.; Nuttall, C.J., Jr.  
TI - An analysis of ground mobility models (ANAMOB)  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-71-4, AD886513, 1971, 326 p
500. AU - Sterrett, K.F.  
TI - The Arctic environment and the Arctic surface effect vehicle  
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
SO - CRREL-76-1, ADA024819, 1976
501. AU - Gavan, G.R.  
TI - Rollover protective structure (ROPS). Design, analysis and test of an improved ROPS for the military 6000-pound rough terrain forklift truck and a feasibility study of ROPS for the military 20-ton rough-terrain crane  
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Jul 75, 193 p, ADA015031
502. TI - Engineering design handbook: wheeled amphibians  
OS - Army Materiel Command, Washington, D.C.  
SO - 11 Jan 71, 425 p, AD881357
503. AU - Pates, B.A., Jr.  
TI - Tactical mobility study for amphibious assault and post-assault in the mid-range period (FY 1970-79). Volume III.  
OS - Marine Corps Development and Education Command, Quantico, VA Development Center  
SO - Jun 70, 222 p, AD881479

504. AU - Clark, G.M.  
TI - The land combat model (DYNCOM). Volume 2  
OS - Ohio State Univ, Columbus Systems Research Group  
SO - 1 Jan 70, 242 p, ADB001826
505. AU - Melzer, K.J.  
TI - Performance of towed wheels operating in turned mode on soft soil—a pilot study  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-MP-M-76-17, ADA028909, 1976, 98 p
506. AU - Spitzer, R.L.  
TI - A reevaluation of the 60% gradeability requirement  
OS - Army Tank-Automotive Command, Warren, MI  
SO - Jan 75, 34 p, ADB001666
507. TI - Vehicle test facilities at Aberdeen Proving Ground  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 17 Mar 76, 61 p, ADA027035
508. TI - Drawbar pull  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 19 Nov 75, 11 p, ADA027202
509. AU - Turnage, G.W.  
TI - Performance of soils under track loads. Report 3. Track mobility number for coarse-grained soils  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-TR-M-71-5-3, ADA026721, 1976, 108 p
510. AU - Lane, W.J.; Staursky, M.V.  
TI - Concepts for design of lightweight track for the U.S. Marine landing vehicle assault (LVA)  
OS - Aluminum Co of America Alcoa Center PA, David W. Taylor Naval Ship Research and Development Center, Bethesda, MD  
SO - 20 Feb 76, 59 p, ADA024262
511. AU - Schreiner, B.G.; Willoughby, W.E.  
TI - Validation of the AMC-71 mobility model  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-TR-M-76-5, ADA023609, 1976, 200 p
512. AU - Schreiner, B.G.; Willoughby, W.E.  
TI - Validation of the AMC-71 mobility model. Appendix A: vehicle data. Appendix B. location and description of test sites. Appendix C: definitions of terrain terms and procedures used to collect terrain data for validation tests. Appendix D: basic terrain data  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-TR-M-76-5-App-A/D, ADA023608, 1976, 170 p

513. AU - Siorek, R.W.  
TI - U.S. Army/FRG Army Mobility, Symposium; proceedings held in April 1975  
OS - Army Tank-Automotive Command, Warren, MI  
SO - Nov 75, 322 p, ADA021702
514. AU - Randolph, D.D.  
TI - Comparison of the ride and mobility characteristics of selected commercial 1/4- to 3/4-ton vehicles and the military M151A2 utility truck  
OS - Army Waterways Experiment Station, Vicksburg, MI  
SO - WES-MP-M-76-6, 1976, 226 p, ADA022853
515. AU - Nuttall, C.J., Jr.; Randolph, D.D.  
TI - Mobility analyses of standard- and high-mobility tactical support vehicles (HIMO study)  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-TR-M-76-3, 1976, 261 p
516. AU - Parry, S.H.  
TI - Studies of mobility, agility and survivability in the land combat environment  
OS - Naval Postgraduate School, Monterey, CA  
SO - Sep 75, 147 p, ADA020052
517. TI - Vicksburg mobility exercise A: design of field test program. Report of meeting (2nd) held at Vicksburg, MS on 8-10 February 1967  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - WES-MP-4-979, ADA019174, 1968, 54 p
518. AU - Meyer, M.P.  
TI - Bibliography of papers presented at meetings or in technical journals on studies of the mobility and environmental systems laboratory  
OS - Army Waterways Experiment Station, Vicksburg, MS, Pavements/Soil Trafficability Info Anal Ctr  
SO - PSTIAC-2, ADA018290, 1975, 32 p
519. AU - Hicks, J.G.; Orth, C.L.; Thomas, A.  
TI - Sand mobility characteristics of offroad Army cargo trucks  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - AD-A018225, 1975
520. AU - Rush, Edgar S.  
TI - Beach trafficability testing with off-road materials handling equipment, Anzio Beach, Little Creek, VA  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-M-74-5, ADA017723, 1974, 106 p

521. AU - Blackmon, Claude A.; Green, Charles E.  
 TI - Project diamond ore; phase IIA: effectiveness of craters as barriers to mobility  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-MP-M-73-6, 1973m 46 p
522. AU - Hanamoto, B.  
 TI - Effects of variation in drawbar hitch location on vehicle performance  
 OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
 SO - CRREL-SR-237, ADA016911, 1975, 19 p
523. AU - Hanamoto, B.  
 TI - Traction aid for wheeled vehicles  
 OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
 SO - CRREL-SR-232, ADA013828, 1975, 13 p
524. AU - Green, Charles E.  
 TI - Project Essex I. Phase I: mobility experiments  
 OS - Army Waterways Experiment Station, Vicksburg, MS, Defense Nuclear Agency, Washington, D.C.  
 SO - WES-MP-M-75-3, ADA011493, 1975, 85 p
525. AU - Gavan, G.R.  
 TI - Rollover protection structure (ROPS) design, analysis and test for the military 10,000-lb rough terrain forklift truck  
 OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
 SO - ADA008080, 1975, 192 p
526. AU - Tosh, John D.; Johnston, Alan A.; Frame, Edwin A.  
 TI - Performance of army engines with leaded and unleaded gasoline. Phase II: Field study evaluation  
 OS - Southwest Research Inst, San Antonio, TX, Army Fuels and Lubricants Research Lab, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
 SO - Jan 75, 88 p, ADA005577
527. AU - Rogozhin, V.; Zamyshlyayev, Yu.  
 TI - GAZ-71 tracker transporter  
 OS - Army Foreign Science and Technology Center, Charlottesville, VA  
 SO - FSTC-HT-23-1769-73, Trans. of Za Rulem (USSR) n 2 p 9-10, 1973, AD785883
528. AU - Jurkat, P.; Nuttall, C.J.; Haley, P.W.  
 TI - The AMC '74 mobility model  
 OS - Stevens Inst of Tech, Hoboken NJ, Army Tank-Automotive Command, Warren, MI., Army Waterways Experiment Station, Vicksburg, MS., Army Materiel Command, Washington, D.C.  
 SO - May 75, 469 p, ADA014278

529. AU - Swanson, G.G.; Patin, T.R.  
 TI - Small-scale mobility tests in fine-grained layered soils  
 OS - Army Waterways Experiment Station, Vicksburg, MS., Army Materiel Command, Alexandria, VA  
 SO - AEWES-TR-M-75-1, ADA 013491, 1975, 77 p
530. AU - Baker, R.N.  
 TI - Development of a noise reduction cab for the U.S. Army 10,000-lb. rough terrain forklift truck  
 OS - Blachford (HL) Inc, Troy, MI, Noise Control Consulting Div, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
 SO - May 75, 37 p, ADA012273
531. TI - Off-road mobility research  
 OS - Cornell Aeronautical Lab Inc, Buffalo, NY, Army Research Office, Durham, N.C., Advanced Research Projects Agency, Arlington, VA  
 SO - Sep 67, 176, ADA012106
532. AU - Turnage, G.W.  
 TI - Measuring soil properties in vehicle mobility research. Report 7. Behavior of fine-grained soils under high-speed tire loads  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-652-7, ADA012146, 1975, 68 p
533. TI - Microthesaurus of vehicle mobility, environment and pavement terms  
 OS - Army Waterways Experiment Station, Vicksburg MS, Pavements/Soil Trafficability Info Anal Ctr, Army Materiel Command, Alexandria, VA  
 SO - PSTIAC-1, ADA011269, 1975, 135 p
534. AU - Yong, N.  
 TI - Screening technique for the mobile protected weapon system (MPWS) evaluation process  
 OS - Naval Surface Weapons Center, Dahlgren Lab, VA  
 SO - Apr 75, 60 p, ADA009091
535. TI - Trafficability tests with the airoll on organic and mineral soils  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-439, ADA006497, 1961, 57 p
536. TI - Study and evaluation in the field of environmental pollution related to the utilization of army materiel  
 OS - Southwest Research Inst, San Antonio, TX, Army Fuels and Lubricants Research Lab, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
 SO - Oct 74, 36 p, ADA003335

537. TI - U.S. Army logistic voyageur hardening analysis II  
OS - Bell Aerospace Co, Buffalo, NY, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Nov 74, 176 p, ADA003274
538. AU - Moffitt, J.V.; Lestz, S.J.  
TI - Water induction studies in a military spark ignition engine  
OS - Southwest Research Inst, San Antonio, TX, Army Fuels and Lubricants Research Lab, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - ADA-003332, 1974, 43 p, NTIS Prices: PC A03/MF A01
539. AU - Kulikov, A.; Kuroedov, A.N.; Dyudin, V.K.; Slepov, Yu. P.  
TI - KS-3563 truck-mounted crane  
OS - Army Foreign Science and Technology Center, Charlottesville, VA  
SO - FSTC-HT-23-1348-73, ADA002637, 1974, Trans. of Stroitelnye i Dorozhnye Mashiny (USSR) n 9, p 9-11, 1972
540. AU - Suhler, S.A.; Owen, T.E.; Hipp, J.E.; Peters, W.R.; Tranbarger, O.  
TI - Seismic and acoustic target locating devices (TLD-4 and TLD-5)  
OS - Southwest Research Inst, San Antonio, TX, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Final Technical Rept., 19 Dec 73-1 Oct 74, ADA002061, 1974
541. AU - Dobbins, J.E.  
TI - Tread design study of 9.00R20 radial ply tires  
OS - Nevada Automotive Test Center, Carson City, Army Tank-Automotive Command, Warren, MI  
SO - Jul 74, 251 p, ADA002074
542. AU - Baker, R.N.  
TI - Development of noise reduction kits for the U.S. Army 10,000-lb rough terrain forklift truck  
OS - Blachford (HL) Inc, Troy, MI, Noise Control Consulting Div, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Final technical rept, AD786595, 1974, 153 p
543. AU - Grant, J.W.  
TI - A technique for the validation of vehicle models using the road simulator  
OS - Army Tank-Automotive Command, Warren, MI  
SO - 1973, 14 p, AD785627
544. AU - Hibler, W.D., III  
TI - A sea ice terrain and mobility model  
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
SO - 1974, 16 p, AD785631

545. AU - Murphy, N.R. Jr.; Barber, V.C.  
TI - A vehicle-road compatibility analysis and modification system (VRCAMS). Part I and II  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - 1973, 16 p, AD785658
546. AU - De Martinis, S.A.  
TI - Rollover protective structure (ROPS) for the Allis Chalmers 645M military front end loader  
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Aug 74, 91 p, AD 785594
547. AU - Gavan, G.R.; De Martinis, S.A.  
TI - Rollover protective structure (ROPS) design, analysis, and test for Caterpillar 830MB and Clark 290M medium wheeled tractors. Volume I.  
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Final rept., Jul 72-Jul 74, AD785592, 179 p
548. AU - Gavan, G.R.; De Martinis, S.A.  
TI - Rollover protective structure (ROPS) design, analysis, and test for Caterpillar 830MB and Clark 290M medium wheeled tractors, Volume II.  
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Final rept. Jul 72-Jul 74, AD785593, 374 p
549. AU - Randolph, D.D.; Blackmon, C.A.  
TI - Terrain analysis for the Armored Reconnaissance Scout Vehicle Test Program  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Rept. for Dec 72-Oct 73, AD776387
550. AU - Emanuel, J.C.  
TI - Mission analysis of 1 1/4-ton limited mobility truck  
OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD  
SO - Technical rept., AD784064, 1974, 47 p
551. AU - Herb, H.  
TI - Armored car VTT-AML  
OS - Army Foreign Science and Technology Center, Charlottesville, VA  
SO - FSTC-HT-23-194-73, AD784316, 1973, 6 p
552. AU - Scott, J.A., Jr.  
TI - Automatic vehicle classification system  
OS - Ensco Inc, Springfield, VA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Jun 74, 122 p, AD784354

553. AU - Turnage, G.W.  
TI - Measuring soil properties in vehicle mobility research.  
Report 6. Resistance of coarse-grained soils to high-speed penetration  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Jul 74, 104 p, WES-TR-3-652-6, AD781991
554. AU - Hanamoto, B.  
TI - Cobra: positive pitch controlled articulated testbed  
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
SO - CRREL-SR-207, 1974, AD780695, 15 p
555. AU - Gurganious, J.T.  
TI - Engineer test and user evaluation of UNA-track kit  
OS - Army Land Warfare Lab, Aberdeen Proving Ground, MD  
SO - May 74, 57 p, AD780740
556. AU - Stilbans, Z.  
TI - UAZ-469 replaces GAZ-69  
OS - Army Foreign Science and Technology Center, Charlottesville, VA  
SO - Trans. of Za Rulem (USSR) n 12, p 12, 1972, by James McVay, Rept. No: FSTC-HT-23-1510-73, AD781022, 1974
557. AU - Jurkat, M.P.  
TI - Mathematical model of wheeled vehicles exiting from the riverine environment  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - Feb 74, 66 p, AD779550
558. AU - Kugath, D.A.; Laniewski, J.P.; Makinson, J.B.; Pieper, D.L.; Wilt, D.R.  
TI - Mobility aid study  
OS - General Electric Co, Philadelphia, PA. Re-entry and Environmental Systems Div.  
SO - Jan 73, 56 p, AD909053
559. AU - Hicks, J.G.; Clark, W.F.; Tacey, C.; Thomas, A.; Orth, C.  
TI - Beach mobility tests and analysis of large, cargo-handling vehicles  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Apr 74, 212 p, AD778167
560. AU - Kennedy, J.G.  
TI - Trafficability of soils. Supplement 20. Development of vehicle performance prediction equations and classification system for coarse-grained soils  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TM-3-240-Suppl-20, AD778717, 1974, 77 p



561. AU - Ehrlich, R.; Cantwell, F.; Carr, J.; Dugoff, H.J.; Latson, D.  
TI - Report of the Ad Hoc Working Group in Innovative Mobility Concepts  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - Oct 73, 167 p, AD773016
562. AU - Briggs, J.  
TI - Project armor obstacle II  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-E-73-4, AD773667, 1973, 94 p
563. AU - Boutros, A.N.; Jurkat, M.P.  
TI - Effect of variations of the terrain digitizing interval of the AMC 71 mobility model  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - Oct 73, 29 p, AD769636
564. AU - Bischoff, T.J.  
TI - Heavy equipment transporter development  
OS - Army Tank-Automotive Command, Warren, MI  
SO - Sep 72, 51 p, AD772703
565. AU - Salisbury, N.E.  
TI - Development of a terrain prediction model for West Germany  
OS - Army Materiel Systems Analysis Agency, Aberdeen Proving Ground  
SO - Jun 73, 85 p, AD768704
566. AU - Eckles, A.J. III; Garry, T.A.; Mullen, W.C.; Aschenbrenner, H.  
TI - HELAST II. A field study of the effects of mobility/agility on target presentation and defender reaction. Addendum  
OS - Human Engineering Lab, Aberdeen Proving Ground, MD  
SO - Jul 73, 7 p, AD769607
567. AU - Tootle, J.N.  
TI - Feasibility analysis and evaluation study of a remotely controlled vehicle  
OS - National Water Lift Co, Kalamazoo, MI  
SO - 22 May 73, 296 p, AD768213
568. AU - Myrick, E.  
TI - Magnetic signature characteristics investigation  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Jul 73, 35 p, AD766236
569. AU - Pope, W.S.; Doerschuk, D.C.; Tierney, J.M.  
TI - Miniature, remotely controlled land and water vehicles  
OS - Battelle Columbus Labs, OH Tactec  
SO - Jul 72, 157 p, AD761665

- 570. AU - Atkins, R.M.; Wallace, R.R. Jr.; Felts, R.  
 TI - Ribbon bridge boat transporter system study  
 OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
 SO - Oct 72, 40 p, AD756874
  
- 571. AU - Turnage, G.W.  
 TI - Performance of soils under tire loads. Report 8. Application of test results to tire selection for off-road vehicles  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-666-8, AD751750, 1972, 164 p
  
- 572. AU - Woods, H.K.; Shamburger, J.H.  
 TI - Mobility environmental research study. Report I. Selection and description of test areas, U.S. Military Reservations  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper 4-726, AD745151, 1965, 234 p
  
- 573. AU - Siorek, Richard W.  
 TI - Wheel travel and its effects on mobility  
 OS - Army Tank-Automotive Command, Warren, MI  
 SO - Jun 72, 46 p, AD746252
  
- 574. AU - Knight, S.J.; Freitag, D.R.  
 TI - Comments on mobility research  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-623, AD744221, 1964, 21 p
  
- 575. TI - Tractor, tracked  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - AD733298, 1971, 18 p
  
- 576. AU - Dornbusch, W.K., Jr.  
 TI - Mobility environmental research study. A quantitative method for describing terrain for ground mobility. Volume VII. Development of factor-complex maps for ground mobility  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-726-7, AD833829, 1968, 69 p
  
- 577. AU - Niemi, E.W.; Bayer, R.  
 TI - Analytical prediction of vehicle mobility muskeg  
 OS - Michigan Technological Univ, Houghton Keweenaw Research Center  
 SO - Jun 70, 92 p, AD730792
  
- 578. TI - Truck, dump  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - 1 Jul 71, 20 p, AD728452
  
- 579. TI - The AMC '71 mobility model. Volume I. Summary report  
 OS - Army Tank-Automotive Command, Warren, MI  
 SO - Jul 73, 62 p, AD766733

580. TI - The AMC '71 mobility model. Volume II. Appendices A, B and C  
OS - Army Tank-Automotive Command, Warren, MI  
SO - Jul 73, 315 p, AD766734
581. TI - Transportability  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 7 Feb 73, 73 p, AD765456
582. AU - Turnage, G.W.  
TI - Measuring soil properties in vehicle mobility research.  
Report 5. Resistance of fine-grained soils to high-speed penetration  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-3-652-5, AD763184, 1973, 78 p
583. AU - Sinclair, A.H.; Otto, R.J.  
TI - Unitized high-mobility suspension and drive system for track vehicles  
OS - Office of the Secretary of the Army, Washington, D.C.  
SO - PATENT-3 614 125, AD163735
584. AU - Wolfe, M.J.  
TI - Evaluation of a straddle-lift vehicle as a container handler/transporter for amphibious operations  
OS - Naval Civil Engineering Lab, Port Hueneme, CA  
SO - Mar 73, 39 p, AD759676
585. AU - Costes, N.C.; Farmer, J.E.; George, E.B.  
TI - Mobility performance of the lunar roving vehicle terrestrial studies APOLLO 15 results  
OS - National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL  
SO - NASA-TR-R-401; 1972, 87 p
586. AU - Keenan, R.E. Jr.  
TI - Effects of terrain power spectral density shaping and measurement interval on a vehicle ride simulation  
OS - Stevens Inst. of Tech, Hoboken, NJ, Davidson Lab  
SO - Feb 73, 126 p, AD756497
587. AU - Rush, E.S.  
TI - Trafficability tests with jumbo truck on organic and coarse-grained mineral soils  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-4-438, AD756331, 1961, 23 p
588. AU - Rula, A.A.  
TI - A limited study of snap-tracs  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-4-322, AD756291, 1959, 17 p

589. AU - Knight, S.J.; Freitag, D.R.  
 TI - Measuring soil trafficability characteristics  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc Paper-4-462, AD754333, 1961, 19 p
590. AU - Knight, S.J.; Meyer, M.P.  
 TI - A technique for mapping trafficability  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc Paper-4-461, AD754334, 1961, 16 p
591. AU - Tarkhanovskii, V.  
 TI - An all-terrain amphibious vehicle (vezdekhod-amfibiya)  
 OS - Army Foreign Science and Technology Center, Charlottesville, VA  
 SO - TSTC-HT-23-1803-72, AD754831, 1972, 5 p
592. AU - Rush, E.S.  
 TI - Utility carrier development program. Report 1. Limited study of effects of jungle trail characteristics on performance of selected self-propelled vehicles  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-M-69-5-1, AD753427, 1969, 21 p
593. AU - Trautwein, W.  
 TI - Design, fabrication and delivery of an improved single elastic loop mobility system (ELMS)  
 OS - Lockheed Missiles and Space Co, Huntsville, AL, Research and Engineering Center  
 SO - NASA-CR-123840, 1972
594. AU - Trautwein, W.  
 TI - Design, fabrication and delivery of an improved single elastic loop mobility system (ELMS). Volume 2. Technical Report  
 OS - Lockheed Missiles and Space Co., Huntsville, AL, Research and Engineering Center  
 SO - NASA-CR-123841, 1972, 142 p
595. AU - Dugoff, H.; Rula, A.  
 TI - Analytical prediction of vehicle mobility  
 OS - Army Tank-Automotive Command, Warren, MI  
 SO - 1972, 15 p, AD750319
596. AU - Murphy, N.R. Jr; Lessem, A.S.  
 TI - A unified method for describing vehicle dynamics  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - 1972, AD750355
597. AU - Smith, J.L.  
 TI - Effects of tread pattern on the surface traction of terra-tires  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-4-942, 1967, 27 p, AD747099

IT    tires, skidding, soils, trafficability, tracked vehicles,  
mobility, soil mechanics, friction, clay

598.    AU - Green, A.J. Jr; Switzer, G.G.  
      TI - Vehicle dynamics research at Waterways Experiment Station  
      OS - Army Waterways Experiment Station, Vicksburg, MS  
      SO - AEWES-Misc-Paper-M-69-2, AD746760, 1969, 29 p
599.    AU - Shockley, W.G.  
      TI - Bumps and grinds: studies in body motion  
      OS - Army Waterways Experiment Station, Vicksburg, MS  
      SO - AEWES-Misc-Paper-4-893, AD747098, 1967, 69 p
600.    AU - Crosheck, J.E.  
      TI - Simulation of stochastic input - part I  
      OS - Army Weapons Command, Rock Island, IL, Weapons Lab  
      SO - Jun 72, 38 p, AD746237
601.    AU - Freitag, D.R.; Smith, M.E.; Turnbull, W.J.; Shockley, W.G.  
      TI - Center-line deflection of pneumatic tires moving in dry sand  
      OS - Army Waterways Experiment Station, Vicksburg, MS  
      SO - AEWES-Misc-Paper-4-750, AD745152, 1965, 28 p
602.    AU - Ageikin, Ya.S.  
      TI - Evaluation of ground deformability with respect to vehicle  
          mobility  
      OS - Army Foreign Science and Technology Center, Charlottesville,  
          VA  
      SO - FSTC-HT-23-480-71, AD745547, 1972. Trans. from Avtomobilnaya  
          Promyshlennost (USSR) n 6, 1970, by James McVay
603.    TI - Airoll performance in snow  
      OS - Army Waterways Experiment Station, Vicksburg, MS  
      SO - AEWES-Misc-Paper-4-513, AD744463, 1962
604.    TI - A comparison of quantitative versus nonquantitative terrain  
          descriptive systems for mobility analysis  
      OS - Army Waterways Experiment Station, Vicksburg, MS  
      SO - AEWES-Misc-Paper-4-652, AD745148, 1964, 31 p
605.    AU - Freitag, D.R.; Janosi, Z.J.  
      TI - Tracks versus wheels in soft soil and snow  
      OS - Army Waterways Experiment Station, Vicksburg, MS  
      SO - AEWES-Misc-Paper-4-651, AD744222, 1964, 57 p
606.    AU - Freitag, D.R.; Green, A.J.; Murphy, N.R., Jr.  
      TI - Normal stresses at the tire-soil interface in yielding soils  
      OS - Army Waterways Experiment Station Vicksburg, MS  
      SO - AEWES-Misc-Paper-4-629, AD744224, 1964, 34 p

607. AU - Bunn, R.D.  
TI - Analysis of wheel performances (at zero slip rate) in cereclay  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - May 72, 134 p, AD743977
608. AU - Grabau, W.E.  
TI - Terrain evaluation for mobility purposes  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc-Paper-3-592, AD744216, 1963
609. TI - Engineering design handbook automotive series. Automotive bodies and hulls  
OS - Army Materiel Command, Washington, D.C.  
SO - 20 Apr 70, 406 p, AD873103
610. AU - Patin, T.R.  
TI - Evaluation of surface shear strength measurements for use in laboratory mobility studies  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-Misc Paper-M-72-5, 1972, AD743167
611. Au - Patin, T.R.  
TI - Performance of soils under tire loads. Report 7. Extension of mobility prediction procedures to rectangular-cross-section tires in coarse-grained soil  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-3-666-7, AD741770, 1972, 41 p
612. TI - Maintenance equipment, mobile  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 20 Mar 72, 5 p, AD740165
613. AU - Switzer, G.G.  
TI - Dynamics of wheeled vehicles. Report 4. A statistical analysis of obstacle-vehicle-speed systems  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-68-1-4, AD739916, 1972, 58 p
614. TI - Surface transportability (vehicles)  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 22 Aug 67, 27 p, AD738927
615. AU - Jones, C.S., Jr; Nola, F.J.  
TI - Mobility systems activity for lunar rovers at MSFC  
OS - National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL  
SO - NASA-TM-X-64623, 1971, 41 p
616. TI - Carriers, full tracked  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 9 Feb 72, 11 p, AD738602

617. AU - Edwards, D.C.  
TI - Expendable mine-clearing roller (ENSURE 202.1)  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Jan 72, 106 p, AD737723
618. AU - Jurkat, M.P.  
TI - Data and program considerations for path selection in the AMC mobility model  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - Oct 71, 17 p, AD738164
619. AU - Vaughn, D.A.; Felts, R.  
TI - Army countermine mobility equipment system (ACMES)  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Nov 71, 102 p, AD735350
620. AU - Turnage, G.W.  
TI - Performance of soils under track loads. Report 2. Prediction of track pull performance in a desert sand  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-71-5-2, AD733926, 1971, 92 p
621. TI - Tractor, wheeled  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 1 Nov 71, 18 p, AD734851
622. AU - Melzer, K.J.  
TI - Performance of dual-wheel configurations in coarse-grained soil  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-71-8, AD732864, 1971, 49 p
623. TI - Truck, pipeline construction  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 1 Sep 71, 13 p, AD729842
624. AU - Turnage, G.W.  
TI - Performance of soils under track loads. Report 1. Model track and test program  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-71-5-1, AD728496, 1967, 89 p
625. AU - Sela, A.D.; Ehrlich, I.R.  
TI - Prediction of rigid wheel performance from plate sinkage tests  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - Sep 71, 71 p, AD730687
626. AU - Melzer, K.J.  
TI - Measuring soil properties in vehicle mobility research. Report 4. Relative density and cone penetration resistance

- OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-3-652-4, 1971, 50 p, AD729367
627. AU - Morris, B.L.  
TI - Evaluation of nonexpendable mine clearing roller wheels under blast attack  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Apr 71, 64 p, AD728158
628. AU - Shamburger, J.H.; Grabau, W.E.  
TI - Mobility environmental research study: A quantitative method for describing terrain for ground mobility. Volume I. Summary  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-3-726-1, 1968, AD835392
629. AU - Wenzel, A.B.; Garza, L.R.  
TI - A preliminary report of the technical objectives and anticipated functional requirements of the nonexpendable mine roller system  
OS - Southwest Research Inst, San Antonio, TX  
SO - 1 Sep 70, 31 p, AD728123
630. AU - Kennedy, J.G.; Rush, E.S.  
TI - Trafficability of soils. Supplement no. 18. Development of revised mobility index formula for self-propelled wheeled vehicles in fine-grained soils  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TM-3-240-18-Suppl, AD832912, 1968, 90 p
631. AU - Daneker, G.W.  
TI - Military potential test of sleds, amphibious, marginal terrain (SAMT)  
OS - Development and Proof Services, Aberdeen Proving Ground, MD  
SO - Apr 67, 30 p, AD811032
632. AU - Murphy, N.R., Jr.  
TI - Performance of soils under tire loads. Report 6. Effects of test techniques on wheel performance  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-3-666-6, AD823500, 1967, 57 p
633. AU - Henderson, T.B.  
TI - Shock and vibration technical design guide. Volume I. Methodology and design philosophy. Volume II. Analytical procedures, book 1 of 2  
OS - Hughes Aircraft Co, Fullerton, CA. Environmental Engineering Dept.  
SO - 1968, 185 p, AD844559
634. TI - Liquid transporting and dispensing equipment  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD



- SO - Final rept. on materiel test procedure, AD724087, 1971, 26 p
635. AU - Wright, R.C.; Burns, J.R.  
 TI - Mobility environmental research study. A quantitative method for describing terrain for ground mobility. Volume 2. Surface compound  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-726-2, AD827289, 1968
636. AU - Broughton, J.D.; Adder, E.E.  
 TI - Mobility environmental research study: A quantitative method for describing terrain for ground mobility. Volume IV. Vegetation  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-3-726-4, AD830184, 1968, 159 p
637. AU - Swanson, G.D.  
 TI - Studies of dual and tandem rigid wheel performance in sand  
 OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
 SO - AD726384, 1971, 132 p
638. TI - Transporter and stringing boom  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD726897, 1971, 19 p
639. TI - Launcher, assault, bridge  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD726898, 1971
640. TI - Truck, wrecker, crane  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD725524, 1971, 25 p
641. AU - Johnsen, J.L.  
 TI - The effect on drawbar-pull in sand of the lateral spacing of cleats  
 OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
 SO - Jun 71, 68 p, AD725472
642. TI - Truck, stake or flat bed  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Materiel test procedure, AD725523, 1969
643. AU - Kenyon, L.W.  
 TI - Engineering test (desert) of truck, forklift, multipurpose, 4,000-pound capacity, UL-42 (sandpiper)  
 OS - Yuma Proving Ground, AZ  
 SO - Nov 66, 80 p, AD805579
644. AU - Smith, F.G.  
 TI - Analysis of wheel performance (at zero slip rate) using the wheel soil system constant

- OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
 SO - Final rept, AD724151, 1971, 125 p
645. AU - McKechnie, R.M., III  
 TI - HPMPH: A digital computer program for computer-aided design  
 OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
 SO - Apr 71, 38 p, AD724622
646. TI - Mount, gun, vehicular and ground  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD724067, 1971
647. AU - Lessem, A.S.  
 TI - Dynamics of wheeled vehicles. Report 2. Implementation of Wiener-Bose theory and application to ride dynamics  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-M-68-1-2, AD723403, 1971, 135 p
648. AU - Murphy, N.R., Jr.  
 TI - Dynamics of wheeled vehicles. Report 3. A statistical analysis of terrain-vehicle speed  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-TR-M-68-1-3, 1971, AD723405
649. TI - Vehicle, recovery, full tracked  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD723024, 1971, 23 p
650. TI - Combat engineer vehicle  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, 1971, 44 p
651. TI - Trailer, cargo, amphibious  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD722726, 1971, 19 p
652. TI - Tank, combat, full tracked  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD720564, 1971, 45 p
653. AU - Blackmon, C.A.; Rula, A.A.  
 TI - Event dial pack; project LN309: effectiveness of craters as barriers to mobility  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - AEWES-Misc-Paper-M-71-4, AD720986, 1971, 56 p
654. TI - Steering  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD879047, 1970, 15 p

- 655. TI - Truck, utility  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 1 Feb 71, 20 p, AD720526
- 656. TI - Truck, wrecker  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - 12 Feb 71, 16 p, AD719678
- 657. AU - Young, D.A.  
TI - Lightweight, high mobility track  
OS - Chrysler Corp, Detroit MI, Defense Operations Div  
SO - Final rept, AD719921, 1968, 66 p
- 658. TI - Tracking and hitting performance. Moving gun mount-moving target  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - Final rept. on materiel test procedure, AD719087, 1970, 27 p
- 659. TI - Soft-soil vehicle mobility  
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
SO - Final rept. on materiel test procedure, AD871765, 1970, 11 p
- 660. AU - Selivanov, I.I.  
TI - Wheeled and tracked off-the-road high-mobility vehicles  
OS - Army Tank-Automotive Center, Warren, MI, Foreign Technology Office  
SO - 8 Jul 69, 338 p, AD695671, Edited trans. mono. of Avtomobili i Transportnye Gusenichnye Mashiny Vysokoi Prokhodimosti (Motor Vehicles and High Passability Transportation Crawler Trucks), Moscow, 1967, 271 p
- 661. AU - Ehrlich, I.R.; Kamm, I.O.; Worden, G.  
TI - Studies of off-road vehicles in the riverine environment. Volume I. Performance afloat  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - Oct 68, 149 p, AD688965
- 662. AU - Bartlett, G.E.; Deutschman, J.N.  
TI - Off-road mobility research. Volume 2  
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
SO - Summary technical rept. no. 3, Aug 66-Oct 68, AD690170, 1968, 165 p
- 663. AU - Krolikiewicz, M.  
TI - Compatibility study of the interface between helicopter external transport of cargo and other modes of cargo transport  
OS - Army Air Mobility Research and Development Lab, Fort Eustis, VA  
SO - Technical memo, ADA047933, 1973, 24 p

664. AU - Elpatevskii, M.M.; Knize, A.A.; Konstantinov, V.K.; Pisarev, M.M.  
 OTI - frezernye kanalokopateli na osushenii lesov  
 TI - Power ditch-diggers in forest drainage  
 OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
 SO - Trans. of Gidrotekhnika i Melioratsiya (USSR) v 20, n 2, p 50-54, Feb 68, AD673575, 1968, 11 p
665. TI - Night performance of combat vehicles  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Materiel test procedure, AD718689, 1968, 12 p
666. TI - Airborne vehicles  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Materiel test procedure, AD718727, 1967, 6 p
667. TI - Flamethrower, mechanized  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - AD718747, 1970, 33 p
668. TI - Missile carrier, self-propelled  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Materiel test procedure, AD718658, 1967, 18 p
669. TI - Traction devices  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Rept. on materiel test procedure, AD718012, 1965, 11 p
670. TI - Motorcycles and scooters  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Rept. on materiel test procedure, 1968, AD718020, 24 p
671. TI - Gradeability and side slope performance mobility  
 SO - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - 24 Nov 65, 7 p, AD718003
672. TI - Logistics-overthe-shore (LOTS) (vehicles)  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD876402, 1970, 16 p
673. TI - Semi-trailer van, (cargo, supply)  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD873532, 1970, 22 p
674. TI - Truck, cargo  
 OS - Army test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD875667, 1970, 13 p
675. TI - Bridge, assault, floating mobile  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD

- SO - Final rept. on materiel test procedure, AD872081, 1970, 16 p
676. TI - Vehicles, field artillery application  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - 25 May 70, 26 p, AD871787
677. TI - Armored vehicle vulnerability to conventional weapons  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD871910, 1970, 27 p
678. TI - Road mobility  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD871132, 1970, 14 p
679. TI - Missile station, guidance and launching, vehicular mounted  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD871343, 1970, 15 p
680. TI - Tractor-wheeled, aircraft, towing  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, 1969, 31 p, AD868557
681. TI - Trailer, fire control van  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD871128, 1970, 30 p
682. TI - Cross-country mobility  
 OS - Army Test and evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD871129, 1970, 12 p
683. AU - Wong, J.Y.  
 TI - Optimization of the tractive performance of four-wheel-drive off road vehicles  
 OS - Carleton Univ, Ottawa (Ontario) Faculty of Engineering  
 SO - 1970, 22 p, AD714475
684. TI - Trailer, bomb  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Final rept. on materiel test procedure, AD866661, 1969, 32 p
685. AU - Taylor, J.B.  
 TI - Weapon firepower potential  
 OS - Naval Postgraduate School, Monterey, CA  
 SO - AD712792, 1970, 42 p
686. AU - Bonder, S.  
 TI - Parametric design/cost effectiveness (PDCE) study on advanced forward area air defense systems (AFAADS) gun systems. Volume IV-1. Engineering models  
 OS - Michigan Univ, Ann Arbor, Systems Research Lab  
 SO - Aug 69, 314 p, AD865479

687. AU - Wiendieck, K.W.  
TI - A preliminary study of seafloor trafficability and its prediction  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-70-8, AD710965, 1970, 121 p
688. AU - Goda, H.L.  
TI - Suggested areas for modification or development of vehicles and equipment for urban military operations overseas  
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div.  
SO - May 70, 63 p, AD711591
689. AU - Kloc, I.  
TI - Vehicle mobility tests, soft soil slopes  
OS - Jet Propulsion Lab, CA Inst of Tech, Pasadena  
SO - NASA-CR-109799, 58 p, 1970
690. TI - Proceedings of the SIPRE Snow Compaction Conference (2nd) held at St. Paul, MN, on 24-25 May 1951  
OS - Snow Ice and Permafrost Research Establishment, Wilmette, IL  
SO - SIPRE-3, AD711900, 1951, 50 p
691. AU - Ehrlich, I.R.; Kolb, R.G.; Sloss, D.A.; Corridon, L.M.  
TI - Studies of off-road vehicles in the riverine environment. Volume III. Associated environmental factors  
OS - Stevens Inst. of Tech, Hoboken, NJ, Davidson Lab  
SO - Apr 70, 105 p, AD706234
692. AU - Lund, I.A.; Meyer, M.P.  
TI - Rainfall, soil moisture and trafficability in the vicinity of Saigon  
OS - Air Force Cambridge Research Labs, LG Hanscom Field, MA  
SO - Air Force surveys in geophysics, AD707823, 1970, 20 p
693. AU - Szten, E.M.; Billion, W.E.; Inglis, E.; Miller, K.; Simmons, K.R.  
TI - Analysis of cross-country surface vehicles for South Vietnam  
OS - Research Analysis Corp, McLean, VA  
SO - Technical memo, AD478550, 1966, 342 p
694. AU - Freitag, D.R.; Green, A.J.; Melzer, K.J.  
TI - Performance evaluation of wheels for lunar vehicles  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - AEWES-TR-M-70-2, AD702246, 1970, 207 p
695. AU - Benjamin, P.; Bottomley, T.A.; Head, J.W.; Yates, M.T.  
TI - Evaluation of mobility modes on lunar exploration traverses - Marius Hills, Copernicus Peaks, and Hadley Appennines Missions  
OS - Bellcomm, Inc, Washington, D.C.  
SO - NASA-CR-108134, 1969, 56 p

696. AU - Simon, H.P.  
TI - Proposed concepts of ground support and supply equipment for air-assault operations  
OS - Army Transportation Research Command, Fort Eustis, VA  
SO - Technical rept., AD701889, 1964, 18 p
697. AU - McKechnie, R.M., III  
TI - VEH digital computer program  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - AD701901, 1969, 97 p
698. AU - Sloss, D.A.; Ehrlich, I.R.; Worden, G.  
TI - Studies of off-road vehicles in the riverine environment. Volume II. Analytical method for egress evaluation  
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab  
SO - Oct 69, 67 p, AD697160
699. AU - Haley, P.W.; Janosi, Z.J.  
TI - The effect of tire chains on wheeled vehicle mobility  
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab  
SO - Oct 66, 21 p, AD803427
700. AU - Miller, P.M.  
TI - The application of the visioelasticity method to soft-soil mobility problems  
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
SO - Sep 68, 51 p, AD696440
701. AU - Yong, R.N.; Japp, R.D.; Windisch, S.J.  
TI - Soil bin studies  
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
SO - Sept 68, 49 p, AD695363
702. AU - Liston, R.A.; Hanamoto, B.  
TI - The drawbar pull-weight ratio as a measure of vehicle performance  
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab  
SO - Aug 66, 53 p, AD488513
703. AU - Roesler, D.J.  
TI - Study of an electrically propelled, high-speed, air-cushion amphibian  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Research rept. Jun-Dec 68, AD691724, 1969, 108 p
704. AU - Parry, J.T.; Heginbottom, J.A.; Cowan, W.R.  
TI - Terrain analysis in mobility studies for military vehicles  
OS - McGill Univ, Montreal (Quebec) Dept of Geography  
SO - Land Evaluation, 1968, p 160-170

- 705. AU - Bartlett, G.E.; Deutschman, J.N.  
 TI - Off-road mobility research, Volume 1  
 OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
 SO - CAL-VJ-2330-G3-Vol-1, AD690169, 1968, 164 p
  
- 706. AU - Dagan, G.; Tulin, M.P.  
 TI - A study of the steady flow of a rigid-plastic clay beneath a driven rigid wheel  
 OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
 SO - Technical rept., Apr-Sep 68, AD689571, 1968
  
- 707. AU - Sugarman, R.C.; Isada, N.M.; Sussman, E.D.  
 TI - Off-road driving simulation: design for a moving base simulator  
 OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
 SO - Technical memo, Nov 67-Sep 68, AD689577, 1969, 65 p
  
- 708. AU - Gwyer, J.  
 TI - River-crossing equipment  
 OS - Library of Congress, Washington, D.C. Aerospace Technology Div.  
 SO - Surveys of foreign scientific and technical literature, AD688490, 1969
  
- 709. AU - McAdams, H.T.  
 TI - Computer mapping and data presentation  
 OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
 SO - Technical memo, AD688672, 1969, 116 p
  
- 710. AU - Pleuthner, R.L.  
 TI - A critique on the performanc of off-road vehicles full-scale test results and prediction method evaluation  
 OS - Cornell Aeronautical Lab, Inc, Buffalo, NY  
 SO - Technical memo, Oct 67-Jul 68, 1969, AD685884, 79 p
  
- 711. AU - Wasynczuk, V.; Glomb, R.  
 TI - Conversion of an M52-M131A5 tractor tanker trailer into high mobility test vehicle  
 OS - Barnes and Reinecke Inc, Chicago, IL  
 SO - Final rept, AD680219, 1968
  
- 712. AU - Bennington, G.; Lubore, S.  
 TI - Resource allocation for transportation (RAFT)  
 OS - Mitre Corp, Mclean, VA  
 SO - AD684709, 1969
  
- 713. AU - Jones, A.W.  
 TI - ARPA workshop on improvement of off-the-road ground mobility  
 OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div  
 SO - Note N-583, 1968, AD678331, 17 p



714. AU - Kolifrath, M.G.; Purvis, R.E.; Wachs, M.  
TI - Conceptual framework for a tactical logistic vehicle evaluation methodology  
OS - Army Materiel Systems Analysis Agency, Aberdeen Proving Ground, MD  
SO - Technical memo, AD675484, 1968
715. AU - Hoop, H.H.  
TI - A survey of terrestrial mobility techniques for application to exploration of lunar and planetary surfaces  
OS - Redstone Scientific Information Center, Redstone Arsenal, AL  
SO - May 66, 119 p, AD489636
716. AU - Wilber, G.F.  
TI - Experimental model, marginal-terrain assault bridge and armored personnel carrier transporter and launcher  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Design test rept., AD671637, 1968, 86 p
717. AU - Gaddy, L.D. Jr  
TI - Fuel cell-electric propulsion test rig (modified M-37, 3/4-ton cargo truck)  
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA  
SO - Engineering rept., Jul 65-Dec 67, AD666763, 1968, 49 p
718. AU - Kostoff, P., Bhargava, S.  
TI - Mobility for counterinsurgency warfare in Thailand  
OS - Military Research and Development Center, Bangkok (Thailand)  
SO - 1968, 30 p, AD667927
719. TI - Lunar surface mobility systems comparison and evolution study (MOBEV), final report  
OS - Bendix Corp, Ann Arbor, MI  
SO - NASA-CR-92641, BSR-1464, 1966, 186 p
720. AU - Grabau, W.E.  
TI - A suggested procedure for the selection and description of reference test areas  
OS - Army Waterways Experiment Station, Vicksburg, MS  
SO - Misc-Paper 4-921, AD658659, 1967, 31 p
721. AU - Vaughan, O.H., Jr  
TI - Lunar environment - design criteria models for use in lunar surface mobility studies  
OS - National Aeronautics and Space Administration, Marshall Space Flight Center, Huntsville, AL  
SO - NASA-TM-X-53661, 1967, 47 p
722. AU - Holdridge, L.R.; Duke, J.A.; Finch, W.A.; Grenke, W.C.; Hennsey, H.

- TI - El real environmental survey, Darien Province, Republic of Panama, 1962  
 OS - Wilson Nuttall Raimond Engineers, Inc, Chestertown, MD  
 SO - Jan 64, 345 p, AD650762
723. AU - Lassaline, D.M.; Baker, W.J.; Sloss, D.A., Jr; Miranda, C.X. C.F.  
 TI - Pilot study of river frequency  
 OS - Detroit Univ, MI, Dept of Civil Engineering  
 SO - Mar 67, 35 p, AD655269
724. AU - Haley, P.W.  
 TI - Mobility environmental research study one-pass program  
 OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab  
 SO - Jan 65, 66 p, AD467165
725. AU - Roach, C.D.  
 TI - Design of wheeled amphibians  
 OS - Army Transportation Research Command, Fort Eustis V  
 SO - Research technical memo, 1960, AD637843, Presented to the Chesapeake Section of the Society of Naval Architects and Marine Engineers, Apr 21, 1960
726. AU - Langway, CC., Jr.  
 TI - Snow studies and other observations - operation King Dog, Sondrestrom, Greenland  
 OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
 SO - SR-31, 1959, AD634469
727. AU - Abele, G.  
 TI - Performance testing of an air cushion vehicle on the Greenland Ice Cap  
 OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
 SO - Special rept. 91, 1966, AD632570
728. AU - Abele, G.  
 TI - Subsurface transportation methods in deep snow  
 OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH  
 SO - TR-160, AD631949, 1965
729. TI - Stress analysis, study of the M4 van expansible and adapter, detachable running gear  
 OS - Gichner Mobile Systems, Inc, Beltsville, MD  
 SO - Final tech rept, 1966, AD636445
730. AU - McRae, J.L.  
 TI - Development of a formula for towing resistance for a wheel in soft soil

- OS - Army Waterways Experiment Station, Vicksburg, MS, Mobility and Environmental Div.  
 SO - Presented at the Army Science Conference (1966), U.S. Military Academy, West Point, NY, 14-17 June 1966. Complete proceedings available in two unclassified volumes as AD634615 and AD634616 and one classified volume available to qualified DDC users
731. AU - Dobson, F.A.; Fulton, D.G.  
 TI - Feasibility study for lunar worm planetary roving vehicle concept, final technical report  
 OS - Aeronutronic, Newport Beach, CA  
 SO - NASA-CR-66098, RSC-6720, 1966, 202 p
732. TI - Vicksburg mobility exercise A: vehicle analysis for remote-area operation  
 OS - Army Waterways Experiment Station, Vicksburg, MS  
 SO - WES-MP-4-702, 1965, AD613366
733. AU - Mellinger, F.M.; Hubbard, J.H.; Peters, R.L.  
 TI - Photoelastic studies for vehicle mobility research  
 SO - WES-CR-3-118, 1965, AD621221
734. TI - Surveyor lunar roving vehicle, Phase I. Volume II - appendixes, Section I - concept evaluation and analysis final report  
 OS - General Motors Corp, Santa Barbara, CA, Jet Propulsion Lab, CA, Inst of Tech, Pasadena, Defense Research Labs  
 SO - NASA-CR-71261, TR64-26, Vol. II, Sect. I, 1964, 389 p
735. TI - Surveyor lunar roving vehicle, Phase I. Volume II - Appendixes, Section III - mechanical subsystems final report  
 OS - General Motors Corp, Santa Barbara, CA, Jet Propulsion Lab, CA, Inst of Tech, Pasadena, Defense Research Labs  
 SO - NASA-CR-71260, TR64-26, Vol. II, Sect. III, 1964, N66-19713
736. AU - Copeland, R.J.; Goodnight, F.H.; Pearson, R.O.  
 TI - Thermal performance test of the A-2H Apollo extravehicular mobility unit, Volume I  
 OS - Ling-temco-vought, Inc, Dallas, TX, Astronautics Div  
 SO - NASA-CR-65280, N66-21016, 1965
737. TI - Surveyor lunar roving vehicle, Phase I. Volume III - preliminary design and system description. Book I - system description and performance characteristics final technical report  
 OS - Bendix Corp, Ann Arbor, MI, Jet Propulsion Lab, CA Inst of Tech, Pasadena, Systems Div.  
 SO - NASA-CR-68625, BSR-903, Vol. III, Book 1, 1964, N66-13475
738. TI - Surveyor lunar roving vehicle, Phase I. Volume III - preliminary design and system description. Book 2 - validation of preliminary design final report  
 OS - Bendix Corp, Ann Arbor, MI, Bendix Systems Div.

- SO - NASA-CR-69397, Vol. III, BSR-903, Vol. III, Book 2, N66-15483, 1964
739. AU - Stokes, L.S.; Macklem, W.C.  
 TI - Development of tires for new family of medium tactical truck  
 OS - United States Rubber Tire Co, Detroit, MI  
 SO - Final rept, phase 3, 1962, AD463853, 94 p
740. AU - San Juan, E.C.  
 TI - Apollo logistics support systems molab studies. Lunar shelter/rover conceptual design and evaluation  
 OS - Hayes International Corp, Birmingham, AL, Apollo Logistics Support Group  
 SO - NASA-CR-61049, N65-24015, 1964, 108 p
741. AU - Heckman, R.T.  
 TI - Visual requirements based on minimum obstacle avoidance distance  
 OS - Hayes International Corp, Birmingham, AL, Missile and Space Support Div.  
 SO - NASA-CR-61078, N65-28857, 1965, 24 p
742. AU - Jones, A.W.  
 TI - The problems of off-the-road mobility  
 OS - Institute for Defense Analyses, Arlington, VA, Research and Engineering Support Div.  
 SO - Jul 65, 66 p, AD468095
743. AU - Roesler, W.J.  
 TI - Automated guideway transit workshop on performance measures, evaluation techniques, and goals held in Washington, D.C. on August 25, 1976  
 OS - Johns Hopkins Univ, Laurel, MD, Applied Physics Lab. Urban Mass Transportation Administration, Washington, D.C. Office of Technology Development and Deployment  
 SO - Aug 76, 105 p, PB277046
744. AU - Kosevich, R.S.  
 TI - The BMP-equipped motorized rifle battalion in the offense  
 OS - Army Inst for Advanced Russian and East European Studies APO, N.Y.  
 SO - Student research rept., 1977, 36 p, ADA047784
745. TI - Durability testing of wheeled vehicles  
 OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD  
 SO - Rept. on materiel test procedure, AD717993, 1966, 17 p

Chapter V - Off road vehicles, tracked vehicles, or wheeled  
vehicles.

## Chapter V

1. AU - Magnussen, G.L.; Aulin, B.H.  
TI - Some off-road mobility studies in Sweden  
SO - Sweden. Forsvarets forskningsanstalt. Avdelning 2. FOA 2.  
Rapport, A2536-97, Feb 1971, 11 p  
LA - Eng  
IT - military operation; computerized simulation; vehicles
2. AU - Beskin, I.A.  
TI - Off-the-road transportation vehicles  
OTI - Transport dlia bezdorozh'ia  
SO - Moscow, Znanie, 1971, 48 p  
LA - Rus  
IT - snow cover effect; motor vehicles; all-terrain vehicles; tracked vehicles; air cushion vehicles; soil trafficability
3. AU - Nuttall, C.J., Jr.  
TI - Ground-crawling: 1966 The state-of-the-art of designing off-road vehicles  
SO - Army Waterways Experiment Station, Vicksburg, MS, 1967, 307 p  
LA - Eng  
IT - design criteria; topographic factors; vehicles; soil trafficability
4. AU - Thomas, I.A.  
TI - Northern off-road transportation in the 70's  
SO - American Society of Civil Engineers, Construction Division. Journal, vol. 101, no. C03, Sept 1975, p 635-646  
LA - Eng  
IT - design; all-terrain vehicles; tracked vehicles; snow vehicles
5. AU - Bekker, M.G.  
TI - Evolution of approach to off-road locomotion  
SO - Journal of Terramechanics, vol. 4, no. 1, 1967, p 49-57  
LA - Eng  
IT - vehicles; traction
6. AU - Rickard, W.E.; Slaughter, C.W.  
TI - Thaw and erosion on vehicular trails in permafrost landscapes  
SO - Journal of Soil and Water Conservation, Report Number MP 738, vol. 28, no. 6, Nov-Dec 1973, p 263-266  
LA - Eng  
IT - permafrost transformation; soil erosion; ground thawing; ground ice; vehicles
7. AU - Radforth, J.R.  
TI - Effects of off-road vehicle trails on the active layer in tundra  
SO - National Research Council, Canada, Associate Committee on Geotechnical Research. Technical memorandum, No. 103, Dec 1971, p 48-49

LA - Eng  
IT - active layer; tundra terrain; all-terrain vehicles; human factors; conservation

8. AU - Kjellin, P.  
TI - Effects of snowmobiles and other off-road vehicles on vegetation  
OTI - Snoskoternas och andra terrangmotorfordons inverkan pa vegetationen  
SO - Motortrafik i terrang-forskningsrapporter om miljöeffekter, Solna, Sweden, Statens naturvardsverk, 1975, p 115-168  
LA - Swe, Eng  
IT - all-terrain vehicles; vegetation patterns; damage; snow cover effect
9. AU - Wastenson, L.  
TI - Mapping off-the-road mobility of terrain vehicles  
OTI - Kartering av framkomlighetsmojligheter for terrangfordon  
SO - Uppsala. Universitet. Naturgeografiska institutionen. UNGI Rapport, No. 34, 1974, p 403-418  
LA - Swe, Eng  
IT - soil trafficability; motor vehicles; terrain identification; aerial photographs; photo interpretation
10. AU - Rickard, W.E.; Brown, J.  
TI - Effects of vehicles on Arctic tundra  
SO - Environmental Conservation, Report Number MP 737, Spring vol. 1, no. 1, 1974, p 55-62  
LA - Eng  
IT - tundra terrain; all-terrain vehicles; damage; ground thawing
11. AU - Brown, J.  
TI - Ecological and environmental consequences of off-road traffic in northern regions  
SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land Management, Aug 1976, p 40-53  
LA - Eng  
IT - human factors; thaw depth; soil trafficability; vegetation protection; damage; ground thawing; permafrost preservation; Arctic soils; tundra terrain; all-terrain vehicles; protection
12. AU - Denison, J.B.  
TI - Off-road trucking winter operation  
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, Ottawa, Canada, 1971, p 181-188  
LA - Eng  
IT - snow roads; roads; construction; cargo; vehicles
13. AU - Harwood, T.A.  
TI - Some considerations for off-road vehicles in northern conditions

- SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970.  
 Proceedings. Vol. 2, Ottawa, Canada, 1971, p 197-219  
 LA - Eng  
 IT - all-terrain vehicles; climatic factors; snow cover structure;  
 muskeg; tracked vehicles
14. AU - Carpentier, M.  
 TI - Off-road vehicles-environmental considerations  
 SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970.  
 Proceedings. Vol. 2, Ottawa, Canada, 1971, p 229-234  
 LA - Eng  
 IT - all-terrain vehicles; transportation
15. AU - Karafiath, L.L.  
 TI - Running gear-soil modeling for off-road vehicles  
 SO - International Conference on Terrain-Vehicle Systems, Detroit,  
 Houghton, MI, June 2-6, 1975. Proceedings. Vol. 1, p 221-247  
 LA - Eng  
 IT - models; all-terrain vehicles; soil strength; tires;  
 trafficability
16. AU - Boyer, J.J.  
 TI - Off-road vehicle  
 SO - U.S. Patent Office. Patent, May 10, 1977  
 LA - Eng  
 IT - all-terrain vehicles
17. AU - Karafiath, L.L.; Nowatzki, E.A.  
 TI - Soil mechanics for off-road vehicle engineering  
 SO - Series on Rock and Soil Mechanics, Clausthal, Germany, Trans  
 Tech Publications, Vol. 2, No. 5, 1977, 515 p  
 LA - Eng  
 IT - soil mechanics; all-terrain vehicles; tracked vehicles; soil  
 classification; soil trafficability; plastic properties; vehicle  
 wheels
18. AU - Irwin, G.J.  
 TI - Snow classification in support of off-road vehicle technology  
 SO - Defense Research Establishment, Ottawa, Canada, DREO Rept.,  
 DREO-801, Feb 1979, 29 p  
 LA - Eng  
 IT - permafrost; cold weather tests; snow structure; metamorphism-  
 snow; classifications; penetrometers; snow vehicles
19. AU - Radforth, J.R.  
 TI - Analysis of disturbance effects of operations of off-road  
 vehicles on tundra  
 SO - Arctic Land Use Research Program, Canada, Report,  
 ALUR-71-72-13, 1973, 77 p  
 LA - Eng  
 IT - revegetation; Canada - Northwest Territories - Mackenzie River



Delta; tracked vehicles; seismic surveys; environmental impact;  
tundra terrain; tundra vegetation

20. AU - Slaughter, C.W.  
TI - Vehicle for the future  
SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land Management, Aug 1976, p 272-279  
LA - Eng  
IT - ground thawing; air cushion vehicles; Arctic soils; Arctic terrain; damage
21. AU - Walker, D.A.; Webber, P.J.; Everett, K.R.; Brown, J.  
TI - Effects of low-pressure wheeled vehicles on plant communities and soils at Prudhoe Bay, Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-17, June 1977, 49 p  
LA - Eng  
IT - United States - Alaska - Prudhoe Bay; tundra terrain; damage; all-terrain vehicles; tires; tundra vegetation
22. AU - Doyle, G.R., Jr.; Workman, G.H.  
TI - Prediction of track tension when traversing an obstacle  
SO - Society of Automotive Engineers, Technical Paper No. 790416  
IT - off-road vehicles; military vehicles; computer simulation
23. AU - Man, G.K.; Kane, T.R.  
TI - Steady turning of two-wheeled vehicles  
SO - Society of Automotive Engineers, Publication No. SP-443  
IT - motorcycles; vehicle dynamics; vehicle directional control; vehicle performance
24. AU - Samuel, A.J.; Loss, A.M.; Latson, D.M.  
TI - M113A1/M113A1E1 Improved Cooling System  
SO - Society of Automotive Engineers, Technical Paper No. 790412  
IT - cooling; cooling systems; military vehicles; vehicle design; vehicle performance
25. AU - Hisson, Col.F., Jr.  
TI - Army's experience on one & one quarter ton commercial trucks  
SO - Society of Automotive Engineers, Technical Paper No. 770338  
IT - military transportation; military vehicles; truck design; truck operation-truck performance
26. AU - Sloss, D.A., Jr.; Brady, P.M., Jr.  
TI - Evaluation of the Landing Vehicle Assault (LVA) over-land performance  
SO - Society of Automotive Engineers, Technical Paper No. 780127  
IT - military vehicle mobility; models; amphibious vehicles; soil mechanics; mobility research

27. AU - Graumlich, A.J.; Kern, C.V.  
TI - Battery powered small off-highway vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 740730  
Also published in SAE Transactions, Vol. 83, 1974  
IT - electric drives; electric propulsion; electric vehicles
28. AU - Richards, E.A.  
TI - The economy and convenience of mechanical transmissions  
SO - Society of Automotive Engineers, Technical Paper No. 760585  
IT - transmissions
29. AU - Hearn, D.L.; Van Dorn, N.H.  
TI - Modern transportation systems  
SO - Society of Automotive Engineers, Technical Paper No. 740225  
IT - transportation; rapid transit; systems engineering
30. AU - Duthion, L.; Doyotte, C.  
TI - High speed train noise control  
SO - Society of Automotive Engineers, Proceedings No. P-44  
IT - ground effect machines; noise
31. AU - Wu, Y.  
TI - A new pollution free tracked air cushion, air-driven rapid transit vehicle  
SO - Society of Automotive Engineers, Proceedings No. P-44  
IT - ground effect machines; rapid transit
32. AU - Wollam, J.M.  
TI - Generalized tracked and wheeled vehicle automotive performance model  
SO - Society of Automotive Engineers, Technical Paper No. 710628  
IT - computer simulation; vehicle performance
33. AU - McGrath, L.R.  
TI - Engineering features of the Terra-Tiger Vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 690575  
IT - light utility vehicles
34. AU - Yarber, G.W.; Airheart, F.B.  
TI - Controlled rotation of braked wheels  
SO - Society of Automotive Engineers, Technical Paper No. 700113  
IT - brakes
35. AU - Kirtland, J.A.; Andrus, D.C. Slabiak, W.  
TI - An AC electric drive system as applied to a tracked vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 690442  
IT - alternators; electric drives; military vehicles
36. AU - Rishavy, E.A.  
TI - Special Purpose Car for commuting  
SO - Society of Automotive Engineers, Technical Paper No. 690462

Also published in SAE Transactions, Vol. 78, 1969  
IT - passenger car design

37. AU - Kress, J.H.  
TI - Hydrostatic power-splitting transmissions for wheeled vehicles - classification and theory of operation  
SO - Society of Automotive Engineers, Technical Paper No. 680549  
Also published in SAE Transactions, Vol. 77, 1968  
IT - hydrostatic transmissions
38. AU - Markow, E.G.  
TI - Design for the remote control environment  
SO - Society of Automotive Engineers, Technical Paper No. 680100  
IT - lunar vehicles; simulators; spacecraft simulators; vehicle directional control
39. AU - Kalen, S.E.  
TI - U.S. Army Human Factors Engineering Publications on military wheeled vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 670496  
IT - human engineering; military vehicles
40. AU - Harrison, M. C.  
TI - Rubber tire vs. steel wheel tradeoffs  
SO - Society of Automotive Engineers, Technical Paper No. 740228  
IT - axles; bus design; tires; electric vehicles
41. AU - Venkateshwar, B.  
TI - A modular design concept for heavy duty transmissions of wheeled and tracked vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 780754  
IT - design; transmissions; hydrostatic transmissions; vehicle design
42. AU - Zarotti, G.L.  
TI - An Earth Moving Equipment Management Policy  
SO - Society of Automotive Engineers, Technical Paper No. 790527  
IT - hydrostatic transmissions; fluid power; hydraulic systems; hydraulic control; computer simulation; construction equipment operation; earthmoving equipment; fleet operation; management; standardization
43. AU - Siorek, R.W.  
TI - Experimental investigation of effect of wheel travel on tracked vehicle mobility  
SO - Society of Automotive Engineers, Technical Paper No. 730036  
IT - military vehicle mobility; shock absorbers; springs; suspension systems; vehicle performance; wheels
44. AU - Singh, D.V.  
TI - Stability of Rajdoot Scooter

- SO - Society of Automotive Engineers, Technical Paper No. 710273  
IT - motorcycles
45. AU - Terai, A.; Aoki, H.; Stanage, R.H.  
TI - New design concept for Komatsu D455A Bulldozer and the actual results  
SO - Society of Automotive Engineers, Technical Paper No. 790902  
IT - construction equipment design; design; earthmoving equipment; off-road vehicles
46. AU - Clifford, M.  
TI - How to select the right hydrostatic transmission circuit for hydraulically powered vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 790885  
IT - antiskid devices; hydraulic systems; hydrostatic transmissions; vehicle design
47. AU - McKeon, C.E.; Turney, R.E.  
TI - Ford TW-30 Tractor with Air-to-Air Intercooled Engine  
SO - Society of Automotive Engineers, Technical Paper No. 790888  
IT - off-road vehicles; air-cooled engines; engine cooling; engines; spark ignition engines
48. AU - de Lime, T.L., III  
TI - Improved fire protection for off-highway equipment  
SO - Society of Automotive Engineers, Technical Paper No. 790882  
IT - electric control-electronic; off-road vehicles
49. AU - Clifford, M.  
TI - An interesting and informative comparison of mobile hydrostatic wheel hub drives  
SO - Society of Automotive Engineers, Technical Paper No. 790883  
IT - hydraulic drives; hydraulic motors; hydraulic systems; hydromechanical transmissions; hydrostatic transmissions
50. AU - Edlund, R.  
TI - An agriculture equipment manufacturer's approach to assure a clean hydraulic system  
SO - Society of Automotive Engineers, Publication No. SP-447  
IT - contamination; hydraulic fluids; off-road vehicles
51. AU - Bourdo, E.A., Jr.  
TI - Forest oriented mechanization  
SO - Society of Automotive Engineers, Technical Paper No. 790852  
IT - off-road vehicles; product engineering; systems engineering; vehicle design; vehicle performance
52. AU - Jewett, J.W.  
TI - Fire suppression systems  
SO - Society of Automotive Engineers, Technical Paper No. 790779  
IT - fire fighting; fire prevention

53. AU - Harris, J.D.; Leffelman, J.E.; Mann, R.L.  
TI - Sound control on JI Case 90 Series Non-Cab Ag Tractors  
SO - Society of Automotive Engineers, Technical Paper No. 790811  
IT - agricultural machinery; off-road vehicles; oil consumption; soundproofing
54. AU - Cochran, T.E.  
TI - The Caterpillar 980C Wheel Loader  
SO - Society of Automotive Engineers, Technical Paper No. 790531  
IT - construction equipment design; earthmoving equipment; vehicle design; off-road vehicles
55. AU - Strauss, A.M.  
TI - Off-road stability of recreational vehicles  
SO - Society of Automotive Engineers, Publication No. SP-443  
IT - stability; off-road vehicles; all-terrain vehicles; vehicle dynamics
56. AU - Black, S.H.  
TI - Simulation of off-road motorcycle ride dynamics  
SO - Society of Automotive Engineers, Technical Paper No. 790261  
IT - motorcycles; off-road vehicles; suspension systems; all-terrain vehicles; computer simulation
57. AU - Hurst, C.G.  
TI - Development of the WABCO 353ft Twin Engine Elevating Scraper  
SO - Society of Automotive Engineers, Technical Paper No. 780774  
IT - construction equipment design; earthmoving equipment; mining equipment; off-road vehicles; product engineering
58. AU - Paul, D.S.  
TI - MF 60 TDL  
SO - Society of Automotive Engineers, Technical Paper No. 780741  
IT - construction equipment design; off-road vehicles
59. AU - Coughran, S.J.  
TI - Tree harvesting, now and in the future  
SO - Society of Automotive Engineers, Technical Paper No. 780750  
IT - construction equipment design; off-road vehicles
60. AU - Goertzen, G.  
TI - Farmhand Cotton Module Mover  
SO - Society of Automotive Engineers, Technical Paper No. 780725  
IT - agricultural machinery; hauling; frames; off-road vehicles; power take-off
61. AU - Zarotti, G.L.; Nervegna, N.; Miotto, G.  
TI - Hydrostatic Transmissions Controls - Is there space for optimization?  
SO - Society of Automotive Engineers, Technical Paper No. 780465  
IT - hydrostatic transmissions; hydraulic control; off-road vehicles

62. AU - Koutsky, L.J.  
 TI - Development of a suspension seat for earthmoving vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 780474  
 IT - seats; off-road vehicles; earthmoving equipment
  
63. AU - Ecklund, E. E.  
 TI - Methanol and other alternative fuels for off-highway mobile engines  
 SO - Society of Automotive Engineers, Technical Paper No. 780459  
 IT - alcohols; alternative fuels; off-road vehicles
  
64. AU - Cadou, P.B.; Bowser, F.J.  
 TI - The development of a scraper suspension system  
 SO - Society of Automotive Engineers, Technical Paper No. 780462  
 IT - ride evaluation; vehicle dynamics; suspension systems; off-road vehicles
  
65. AU - Cornell, C.R.  
 TI - Electronic Control Systems for mobile hydrostatics  
 SO - Society of Automotive Engineers, Technical Paper No. 770751  
 IT - hydrostatic transmissions; electric control-electronic; variable-ratio transmissions; transmissions; off-road vehicles; automatic control
  
66. AU - Adams, M.A.  
 TI - Sludge applicator equipped with high flotation tires  
 SO - Society of Automotive Engineers, Technical Paper No. 780740  
 IT - construction equipment design; off-road vehicles
  
67. AU - Von Fumetti, C.W.  
 TI - A new John Deere Four-Wheel Drive Loader  
 SO - Society of Automotive Engineers, Technical Paper No. 790532  
 IT - off-road vehicles; four wheel drive; construction equipment design; hydraulic systems; industrial equipment
  
68. AU - Pomroy, W.H.  
 TI - Improved Automatic Fire Protection Systems for off-highway mine vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 790880  
 IT - mining equipment; fire fighting; off-road vehicles; safety; fire prevention
  
69. AU - Barnes-Moss, H.W.; Crouch, A.R.; Ritchie, P.J.S.; Barnes-Moss, K.C.  
 TI - The design and development of a heavy duty, off-highway diesel engine family. Part 1 - engine concept and design. Part 2 - component testing and engine development  
 SO - Society of Automotive Engineers, Technical Paper No. 770775  
 IT - diesel engines; engine design; gears; off-road vehicles; power take-off

70. AU - Svendsen, D.J.  
TI - JI Case Model 2870 Four-Wheel Drive Tractor  
SO - Society of Automotive Engineers, Technical Paper No. 770708  
IT - agricultural machinery; off-road vehicles
71. AU - Naft, M.H.  
TI - Integration of component design for a 170-ton off-highway truck  
SO - Society of Automotive Engineers, Technical Paper No. 770741  
IT - vehicle design; off-road vehicles; mining equipment; suspension systems; frames; bodies; axles
72. AU - Tucker, L.E.  
TI - Increased productivity of off-road vehicles through lighter working tools  
SO - Society of Automotive Engineers, Technical Paper No. 760656  
IT - construction equipment design
73. AU - Smith, D.W.  
TI - Computer simulation of tractor ride for design evaluation  
SO - Society of Automotive Engineers, Technical Paper No. 770704  
IT - computer simulation; mathematical analysis; off-road vehicles; ride evaluation; vehicle dynamics; vibration
74. AU - Stevens, R.B.  
TI - Fires on large off-road vehicles: the problem and solution  
SO - Society of Automotive Engineers, Technical Paper No. 750561  
IT - alloy steels; fire fighting; fire prevention; safety devices; vehicle safety
75. AU - Wheelock, W.K.  
TI - The effect of automatic transmissions on military truck fuel economy  
SO - Society of Automotive Engineers, Technical Paper No. 750216  
IT - fuel consumption; military vehicles; automatic transmissions; truck design
76. AU - Van Loan, M.  
TI - Impact of emissions from farm equipment and off-road heavy duty equipment on air pollution in California  
SO - Society of Automotive Engineers, Technical Paper No. 730830  
IT - agricultural machinery; air pollution; exhaust emissions
77. AU - Roesler, D.J.; Gaddy, L.D., Jr.  
TI - Turbine-electric tractor-trailer test rig  
SO - Society of Automotive Engineers, Technical Paper No. 730748  
IT - electric vehicles; noise; truck tractors; turbine trucks
78. AU - Firth, D.  
TI - Hydrostatic motors - direct or indirect?  
SO - Society of Automotive Engineers, Technical Paper No. 730785  
IT - hydrostatic transmissions

79. AU - Pules, M.L.; Eves, D.J.  
TI - ATV Flotation Tires  
SO - Society of Automotive Engineers, Technical Paper No. 720765  
IT - all-terrain vehicles; amphibious vehicles; military vehicle mobility; ride evaluation; suspension systems; tires
80. AU - Rau, J.L.  
TI - Hydrostatic steering designed for large off-highway vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 720803  
IT - hydraulic control; power steering
81. AU - Klaas, R.N.  
TI - Optimizing tire and machine relationships for maximum performance  
SO - Society of Automotive Engineers, Technical Paper No. 720742  
IT - tires
82. AU - Poore, B.B.; Wright, G.; Romig, B.E.  
TI - Evaluation technique - turbine engines and transmissions for off-road vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 720759  
IT - computer simulation; transmissions; turbine engine controls
83. AU - Kreb, H.B.; Thompson, J.E.  
TI - Tractor cab cooling requirements  
SO - Society of Automotive Engineers, Technical Paper No. 710692  
IT - agricultural machinery; air conditioning
84. AU - Wong, J.Y.  
TI - Optimization of the tractive performance of four-wheel-drive off-road vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 700723.  
Also published in SAE Transactions, Vol. 79, 1970  
IT - four wheel drive
85. AU - Lins, W.F.; Hoogterp, F.B.; Pradko, F.  
TI - Comparison of time domain and frequency domain analysis of off-road vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 690353  
IT - computer simulation; military vehicles; vibration
86. AU - Mosher, R.S.  
TI - Exploring the potential of a quadruped  
SO - Society of Automotive Engineers, Technical Paper No. 690191.  
Also published in SAE Transactions, Vol. 78, 1969  
IT - military vehicles; simulators; transporters
87. AU - Bartlett, G.E.; Belsdorf, M.R.; Deutschman, J.N.; Smith, R.L.  
TI - On the prediction of off-road vehicle system mobility  
SO - Society of Automotive Engineers, Technical Paper No. 690150.  
Also published in SAE Transactions, Vol. 78, 1969



- IT - computer simulation; military vehicle mobility
88. AU - Howe, G.H.; Wells, C.G.  
TI - The Air-Cell Suspension System - a solution to off-road mobility problems  
SO - Society of Automotive Engineers, Technical Paper No. 690152  
IT - computer simulation; military vehicles; suspension systems
89. AU - Forsyth, R.W.; Forsyth, J.P.  
TI - Design and development of the TerraStar Marginal-Terrain Amphibian  
SO - Society of Automotive Engineers, Technical Paper No. 680535.  
Also published in SAE Transactions, Vol. 77, 1968  
IT - amphibious vehicles; military vehicles
90. AU - Douglas, O.; Burr, C.E.  
TI - Potential of the Air Cushion Vehicle for off-road mobility  
SO - Society of Automotive Engineers, Technical Paper No. 690148  
IT - amphibious vehicles; ground effect machines; military vehicle mobility; mobility research
91. AU - Deeter, W. F.; Daigh, H.D.; Wallin, O.W. Jr.  
SO - Society of Automotive Engineers, Technical Paper No. 680400.  
Also published in SAE Transactions, Vol. 77, 1968  
IT - air pollution; exhaust emissions; fuel systems
92. AU - Rula, A.A.; Freitag, S.J.; Knight, S.J.  
TI - Design of off-road vehicle test beds for remote area operation  
SO - Society of Automotive Engineers, Technical Paper No. 670171  
IT - military vehicle mobility; mobility research
93. AU - Eubanks, A.C.; Bernotas, R.J.  
TI - Euclid R-X Truck - a new concept in off-road rear dump vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 670272  
IT - construction equipment design
94. AU - Fort, D.M.  
TI - Cost-effectiveness considerations in the design and employment of Army off-road vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 670167  
IT - military vehicles; systems engineering
95. AU - Liston, R.A.  
TI - Correlation between predicted and actual off-road vehicle performance  
SO - Society of Automotive Engineers, Technical Paper No 670170.  
Also published in SAE Transactions, Vol. 76  
IT - military vehicle mobility; mobility research; systems engineering

96. AU - Fielding, P.G.  
TI - Procedure for assessing the Air Cushion Vehicle with other off-road vehicles  
SO - Society of Automotive Engineers, Publication No. SP-261. Also published in SAE Transactions, Vol. 74  
IT - ground effect machines; military vehicles; operations research; systems engineering
97. AU - Bauer, F.  
TI - Integrated Vehicular Communications system using the Ford Radio Road Alert  
SO - Society of Automotive Engineers, Technical Paper No. 670113  
IT - radio equipment; communication systems; traffic safety
98. AU - Kind, W.H.; Logan, J.S.  
TI - Design of the M656 Cargo Truck  
SO - Society of Automotive Engineers, Technical Paper No. 680101  
IT - military vehicles; steering; suspension systems
99. AU - Wong, J.Y.  
TI - Effect of vibrations on the performance of off-road vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 710224  
IT - vehicle performance; vibration
100. AU - Johnson, G.A.  
TI - Improved Fire Protection Systems for surface coal mining equipment  
SO - Society of Automotive Engineers, Technical Paper No. 770744  
IT - fire fighting; mining equipment; off-road vehicles; safety; vehicle safety; fire prevention
101. AU - Beck, R.R.  
TI - A Cybernetically Coupled Research Vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 750217  
IT - actuators; automatic control; military vehicle mobility
102. AU - Converse, V.G., III  
TI - Testing of transmissions  
SO - Society of Automotive Engineers, Technical Paper No. 730818  
IT - nondestructive testing; quality control; test equipment; transmissions
103. AU - Harder, A.  
TI - Airdraulic Seat System  
SO - Society of Automotive Engineers, Technical Paper No. 720915  
IT - Seats
104. AU - Herling, W.R.; Markow, E.G.  
TI - Elliptical wheel concepts  
SO - Society of Automotive Engineers, Technical Paper No. 690153  
IT - military vehicle mobility; wheels

105. AU - Troll, W.C.  
TI - Automotive Radar Brake  
SO - Society of Automotive Engineers, Technical Paper No. 740095.  
Also published in SAE Transactions, Vol. 83, 1974  
IT - brakes; radar; safety; safety devices

Chapter VI - Snow strength measurement or soil strength measurement.

## Chapter VI

1. AU - Lohnes, R.A.; Millan, A.; Handy, R.L.  
TI - In-situ measurement of soil creep  
SO - American Society of Civil Engineers, Soil Mechanics and Foundations Division. Journal, vol. 98, no. SM-1, Jan 1972, p 143-147  
LA - Eng  
IT - soil mechanics; shear stress; creep rate; slopes; measuring instruments; soil creep; shear strength; soil tests
2. AU - Abele, G.  
TI - Techniques for measuring the strength characteristics of natural and processed snow  
SO - Report Number MP 650, for presentation at the Symposium on Physical Methods of Ice and Snow Studies, Leningrad, Oct 1973. Unpublished manuscript, 1974  
LA - Eng  
IT - measurement; snow roads; snow strength; snow bearing strength; snow compaction; snow compression
3. AU - Weiss, S.J.  
TI - Traction tests in snow at the Sierra Test Site, February-March 1952  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, N-107, March 1952, 5 p  
LA - Eng  
IT - tests; performance; snow strength; tracked vehicles; trafficability; traction
4. AU - Tsytoich, N.A.  
TI - Instructions for determining the cohesive strength of frozen soil  
SO - Translation of Instruktivnye ukazaniia po opredeleniiu sil stsepleniia merzlykh gruntov. Materialy po laboratornym issledovaniiam merzlykh gruntov, 1954, No. 2, p 162-175, Hanover, N.H., CRREL, 1970, Report Number TL 162, 17 p  
LA - Eng, Rus  
IT - frozen ground compression; cohesion; soil strength; measurement
5. AU - Ager, B.  
TI - Measuring trafficability of snow  
SO - International Society for Terrain-Vehicle Systems. Second International Conference, Aug 29-Sep 2, 1966, Quebec. Proceedings, Toronto, Univ. of Toronto Press, 1966, p 311-322  
LA - Eng  
IT - measurement; trafficability; snow strength
6. AU - Airhart, T.P.; Hirsch, T.J.; Coyle, H.M.  
TI - Pile-soil system response in clay as a function of excess pore water pressure and other soil properties

SO - Texas A and M University, Texas Transportation Institute.  
Research report, Report is part of the larger project: Piling  
Behavior Research, Research Study Number 2-5-62-33, Sep 1967, No.  
33-8, 37 p

LA - Eng

IT - pile foundations; soil strength; strain measurement; static  
loads; dynamic loads

7. AU - Abele, G.  
TI - Snow mechanics aspects in snow sampling  
SO - International Conference of Soil Mechanics and Foundation  
Engineering, 7th, Aug 29, 1969, Mexico, Specialty Session 1, Report  
Number MP 10, p 69-72, Melbourne, Australia, IGSS, 1969  
LA - Eng  
IT - temperature factors; time factor; viscoelasticity; bearing  
strength; snow samplers; snow strength
8. AU - Smith, J.L.  
TI - Elastic constants, strength and density of Greenland snow as  
determined from measurements of sonic wave velocity  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TR 167, Nov 1965, 18 p  
LA - Eng  
IT - snow density; snow strength; snow plasticity; elastic  
properties; acoustic measurement
9. AU - De Quervain, M.  
TI - Strength properties of a snow cover and its measurement  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
(SIPRE), Report Number SIPRE TL 9, Nov 1951, 9 p, Translation from  
Geofisica pura e applicata, Vol. 18, p 178-191, 1950  
LA - Eng, Ger  
IT - snow strength; test equipment
10. AU - Khazin, B.G.; Goncharov, B.V.  
TI - Use of ultrasound to estimate the strength of frozen soils  
during working  
SO - Soil Mechanics and Foundation Engineering, March-April 1974  
(Publ. Sep 1974, vol. 11, no. 2, p 122-125, Translated from  
Osnovaniia, fundamenty i mekhanika gruntov  
LA - Eng, Rus  
IT - acoustic measurement; soil freezing; soil strength

Chapter VII - Terrain vehicles or terrain analogs.

## Chapter VII

1. AU - Dean, R.  
TI - A new all-terrain undercarriage  
SO - Society of Automotive Engineers, Technical Paper No. 790818  
IT - all-terrain vehicles; construction equipment design; chassis design
2. AU - Westphal, J.A.  
TI - Performance factors of aircraft fire fighting and rescue vehicle design  
SO - Society of Automotive Engineers, Technical Paper No. 790774  
IT - ground support equipment; vehicle design; truck design; fire fighting
3. AU - Chu, M.L.; Doyle, G.R.  
TI - Nondeterministic analysis of a four-wheeled model vehicle traversing a simulated random terrain  
SO - Society of Automotive Engineers, Technical Paper No. 780789  
IT - mathematical analysis; mobility research; simulation; suspension systems; vehicle dynamics
4. AU - Jones, E.W.; Vaughn, W.F.; Bellew, J.D.  
TI - Rough-terrain vehicle with synchronized transmission - a student design project  
SO - Society of Automotive Engineers, Technical Paper No. 780243  
IT - all-terrain vehicles; vehicle design; education; vehicle dynamics; vehicle performance
5. AU - Young, H.E.  
TI - Engineering the complete forest concept  
SO - Society of Automotive Engineers, Technical Paper No. 780749  
IT - all-terrain vehicles; market research; mobility research; research; vibratory tools
6. AU - Stephens, J.; Shapton, W.  
TI - Mini-Baja 1977 - an overview  
SO - Society of Automotive Engineers, Technical Paper No. 780241  
IT - all-terrain vehicles; creativity; design; human engineering; vehicle performance tests
7. AU - Leppert, A.M.  
TI - Design of the winning Mini-Baja 77 vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 780242  
IT - all-terrain vehicles; chassis design; creativity; design; education
8. AU - Dowgiallo E.J., Jr.; Snellings, I.R.; Blake, W.H.  
TI - Battery powered jeep and van performance  
SO - Society of Automotive Engineers, Technical Paper No. 770387  
IT - batteries; electric equipment-electronic; electric vehicles; vehicle performance; vehicle performance tests



9. AU - Shryock, R.A.; Klahs, J.W.; Dieterich, D.A.  
TI - System modeling techniques to improve the ride and vibration isolation characteristics of heavy equipment  
SO - Society of Automotive Engineers, Proceedings No. P-71  
IT - computer simulation; vehicle dynamics; vibration
10. AU - Wheeler, P.  
TI - Tracked vehicle ride dynamics computer program  
SO - Society of Automotive Engineers, Technical Paper No. 770048  
IT - computer simulation; military vehicle mobility; mobility research; ride evaluation; vehicle dynamics
11. AU - Nodell, W.R.; Seely, J.H.  
TI - A chronology and development status of the amphibious assault landing craft JEFF(A)  
SO - Society of Automotive Engineers, Technical Paper No. 750717  
IT - aerospace production; automatic control; design; steels; nondestructive testing; all-terrain vehicles; ground effect machines; military transportation; military vehicle mobility
12. AU - Hawks, K.H.  
TI - Hydrostatic drive all-terrain vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 750146  
IT - all-terrain vehicles; hydraulic drives; hydrostatic transmissions; fluid power; hydraulic systems; vehicle design
13. AU - Warner, D.R.  
TI - Three generations of Soviet wheeled military transport vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 750219  
IT - all-terrain vehicles; military transportation; military vehicle mobility; military vehicles; truck design; truck operation-truck performance
14. AU - Morse, I.E.; Shapton, W.R.  
TI - Rev-74-The University of Cincinnati ATV with independent suspension  
SO - Society of Automotive Engineers, Technical Paper No. 750143  
IT - all-terrain vehicles; education; suspension systems; hydrostatic transmissions; mufflers; vehicle design
15. AU - Kinney, F.L.; Harp, J.C.; Johnson, J.H.  
TI - The design of a 4-wheel steer-4-wheel hydrostatic drive all-terrain vehicle for REV-74  
SO - Society of Automotive Engineers, Technical Paper No. 750144  
IT - all-terrain vehicles; hydraulic drives; hydrostatic transmissions; fluid power
16. AU - Davis, R.L.  
TI - Suspension system modeling and structural loading

- SO - Society of Automotive Engineers, Publication No. SP-392. Also published in SAE Transactions, Vol., 84, 1975  
IT - structural analysis; suspension systems
17. AU - Grant, J.W.  
TI - A technique for the validation of vehicle models using the road simulator  
SO - Society of Automotive Engineers, Technical Paper No. 740945  
IT - computer simulation; mathematical analysis; models; simulators
18. AU - Berenyi, T.; Pershing, R.L.; Romig, B.E.  
TI - Vehicle mission simulation  
SO - Society of Automotive Engineers, Technical Paper No. 730693  
IT - agricultural machinery; computer simulation
19. AU - Williams, A.  
TI - Model 200CA specialized high-speed tracklaying logging vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 730703  
IT - logging equipment
20. AU - Paul, D.L.  
TI - Power/weight ratio for tractor trailers  
SO - Society of Automotive Engineers, Technical Paper No. 720916  
IT - computer simulation; truck trailers; vehicle performance
21. AU - Schreiner, B.S.  
TI - Results derived from soil-vehicle field test program of MEXA design vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 730037  
IT - military vehicle mobility; soil mechanics
22. AU - King, M.W.  
TI - Rubber propulsion tracks for all-terrain vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 720766  
IT - all-terrain vehicles; amphibious vehicles
23. AU - Smith, C.K.; Sebesta, H.R.; Bose, J.E.  
TI - Stabilization of a hydro-mechanical steering system  
SO - Society of Automotive Engineers, Technical Paper No. 720791  
IT - hydraulic systems; steering
24. AU - McHenry, R.R.  
TI - Research in automobile dynamics - a computer simulation of general three-dimensional motions  
SO - Society of Automotive Engineers, Technical Paper No. 710361. Also published in SAE Transactions, Vol. 80, 1971  
IT - brakes; computer simulation; suspension systems; tires; vehicle dynamics
25. AU - Austrow, H.W.  
TI - The M561 Cargo Truck - the Gama Goat

- SO - Society of Automotive Engineers, Technical Paper No. 700015  
IT - military vehicles; truck design
26. AU - Page, J.M.; Gustafson, M. L.  
TI - Equipment for forest fertilization  
SO - Society of Automotive Engineers, Technical Paper No. 690553  
IT - agricultural machinery; helicopters
27. AU - Jespersen, H.A.  
TI - New concept, small two-track all-terrain vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 690574  
IT - hydrostatic transmissions; light utility vehicles
28. AU - Hurford, E.C.  
TI - Doctrinal basis for high mobility vehicles in forward area  
Army units  
SO - Society of Automotive Engineers, Technical Paper No. 700011  
IT - military vehicle mobility
29. AU - Lins, W.F.; Dugoff, H.  
TI - Motion simulation and its application to ride dynamics  
research  
SO - Society of Automotive Engineers, Technical Paper No. 720003  
IT - biomechanics; human engineering; ride evaluation; simulation;  
vehicle dynamics; vibration
30. AU - Garner, A.M.  
TI - The design and operational experience of the TTI T4x ACV in  
northern Canada  
SO - Society of Automotive Engineers, Technical Paper No. 710186  
IT - amphibious vehicles; ground effect machines
31. AU - Howell, L.J.  
TI - Power spectral density analysis of vehicle vibration using the  
NASTRAN Computer Program  
SO - Society of Automotive Engineers, Proceedings No. P-52. Also  
published in SAE Transactions, Vol. 83, 1974  
IT - vibration; computer applications; vehicle design; mathematical  
analysis
32. AU - Farrar, J.J.; Stattenfield, D.B.  
TI - Performance and operational characteristics of high-powered  
diesel truck engines  
SO - Society of Automotive Engineers, Technical Paper No. 730721  
IT - diesel engines; fuel consumption; truck operation-truck  
performance
33. AU - Schubert, D.W.; Racca, R.H.  
TI - Dynamic characteristics of an elastomeric-pneumatic isolator  
with orifice-type relaxation damping for vehicular suspension  
applications

- SO - Society of Automotive Engineers, Technical Paper No. 740991  
IT - all-terrain vehicles; damping; ride evaluation; vehicle dynamics
34. AU - Morman K.N., Jr.  
TI - Non-linear model formulation for the static and dynamic analyses of front suspensions  
SO - Society of Automotive Engineers, Technical Paper No. 770052  
IT - suspension systems; mathematical analysis; vehicle dynamics; computer simulation
35. AU - McHenry, R.R.  
TI - The astro spiral jump - an automobile stunt designed via computer simulation  
SO - Society of Automotive Engineers, Technical Paper No. 760339. Also published in SAE Transactions, 1976  
IT - computer simulation; highways; safety
36. AU - Tashjian, R.C.; Simmons, J.A.  
TI - Marine Corps marginal terrain vehicle XM 759  
SO - Society of Automotive Engineers, Technical Paper No. 690190  
IT - military vehicles; tires
37. AU - Wong, R.E.; Galan, L.; Bradford, L.L.  
TI - Design for the lunar environment  
SO - Society of Automotive Engineers, Technical Paper No. 680099  
IT - lunar vehicles
38. AU - Brannon, W.; David, R.H.; Hodges W., Jr.; Janowski, W.R.  
TI - Design and development of the twister testbed  
SO - Society of Automotive Engineers, Technical Paper No. 690149  
IT - military vehicles; mobility research
39. AU - Bekker, M.G.; Butterworth, A.V.  
TI - Terrain vehicle system evaluation  
SO - Society of Automotive Engineers, Publication No. SP-261  
IT - systems engineering; lunar vehicles; military vehicles
40. AU - McKenzie, R.D.; Howell, W. M.; Skaar, D.E.  
TI - Computerized evaluation of driver-vehicle-terrain system  
SO - Society of Automotive Engineers, Technical Paper No. 670168. Also published in SAE Transactions, Vol. 76  
IT - computer simulation; military vehicles; mobility research; models; vibration
41. AU - Hoppe, C.H.  
TI - Design for the rough-terrain environment  
SO - Society of Automotive Engineers, Technical Paper No. 680098  
IT - computer applications; military vehicle mobility; mobility research; vehicle dynamics

42. AU - Mikhailov, V.V.; Kocheulov, V.P.  
 TI - Use of air cushion vehicles in northern Canada  
 OTI - Primenenie transportnykh sredstv na vozduшной podushke na Kanadskom Severe  
 SO - Problemy Severa, Vol. 20, 1979, p 130-136  
 LA - Rus  
 IT - transportation; air cushion vehicles; all-terrain vehicles
  
43. AU - Glabina, N.K.; Puzanova, V.F.; Tikhonov, A.V.  
 TI - Discussion of scientific and economic problems of northern development  
 OTI - Obsuzhdenie aktual'nykh nauchnykh i khoziaistvennykh problem razvitiia severnykh raionov  
 SO - Problemy Severa, Vol. 20, 1979, p 137-146  
 LA - Rus  
 IT - economic development; all-terrain vehicles; transportation; research projects; air cushion vehicles; excavating equipment; environmental protection
  
44. AU - El'tes, M.I.; Matskov, L.N.; Vol'skii, S.G.  
 TI - Selecting propulsion gear for all-terrain vehicles  
 OTI - Vybor dvizhitelia dlia transportnykh sredstv vysokoi prokhodimosti  
 SO - Promyshlennyi Transport, No. 6, June 1979, p 6-7  
 LA - Rus  
 IT - transportation; all-terrain vehicles; tracked vehicles; air cushion vehicles; vehicle wheels; tires
  
45. AU - Shamburger, J.H.  
 TI - Terrain evaluation of a portion of the Fort Greely Automotive Test Course  
 SO - U.S. Waterways Experiment Station, Vicksburg, MS.  
 Miscellaneous paper, No. 3-861, Dec 1966  
 LA - Eng  
 IT - classifications; mapping; active layer; snow depth; ice cover thickness; subarctic regions; terrain identification; topographic surveys; site surveys; tracked vehicles; trafficability
  
46. AU - Khlebnikov, A.M.; Krestovnikov, G.A.  
 TI - Peculiarities of motor transport under northern conditions  
 OTI - Osobennosti ispol'zovaniia avtotransportnykh sredstv v usloviakh Severa  
 SO - Problemy Severa, Vol. 20, 1979, p 47-59  
 LA - Rus  
 IT - analysis-mathematics; motor vehicles; roads; permafrost beneath roads; trafficability; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; swamps; all-terrain vehicles
  
47. AU - Korsak, V.K.  
 TI - Designing high capacity vehicles for cross-country travel in the North

- OTI - Problemy razvitiia transportnykh sredstv vysokoi prokhodimosti dlia raionov Severa  
 SO - Problemy Severa, Vol. 20, 1979, p 59-73  
 LA - Rus  
 IT - motor vehicles; tracked vehicles; all-terrain vehicles; air cushion vehicles; tractors
48. TI - Arctic winter tests and evaluation, mid-winter stage, Kenworth Truck Model 953A  
 OS - Rymes, J.E.  
 SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 21-2, Mar 1972  
 LA - Eng  
 IT - all-terrain vehicles; cold weather performance; motor vehicles; tracked vehicles; tires
49. TI - Arctic winter test and evaluation, late winter stage, Kenworth Truck Model 953A  
 OS - Rymes, J.E.  
 SO - Arctic Petroleum Operators Association, Calgary, Alta. Report, APOA 21-3, May 1972  
 LA - Eng  
 IT - all-terrain vehicles; tundra vegetation; damage; low temperature tests; cold weather performance
50. AU - Pikul', V.  
 TI - Flying on a wheel  
 OTI - Poletaem na kolese  
 SO - Izobretatel' i ratsionalizator, No. 6, 1979, p 26-28  
 LA - Rus  
 IT - all-terrain vehicles; air cushion vehicles
51. AU - Radforth, J.R.  
 TI - Analysis of disturbance effects of operations of off-road vehicles on tundra  
 SO - Canada. Arctic Land Use Research Program. Report, ALUR 71-72-13, 1973, 77 p  
 LA - Eng  
 IT - revegetation; Canada - Northwest Territories - Mackenzie River Delta; tracked vehicles; seismic surveys; environmental impact; tundra terrain; tundra vegetation
52. AU - Karafiath, L.L.; Nowatzki, E.A.  
 TI - Soil mechanics for off-road vehicle engineering  
 SO - Series on rock and soil mechanics, Clausthal, Germany, Trans Tech Publications, Vol. 2, No. 5, 1977, 515 p  
 LA - Eng  
 IT - soil mechanics; all-terrain vehicles; tracked vehicles; soil classification; soil trafficability; plastic properties; vehicle wheels

53. AU - Yong, R.N.; Harrison, W.L.  
TI - On vehicle mobility in snow-covered terrain. 1. Problem development and requirements for analysis  
SO - Journal of Terramechanics, vol. 15, no. 4, Dec 1978, p 223-225  
LA - Eng  
IT - snow density; dynamic loads; snow cover effect; trafficability; snow cover structure; heat transfer; solar radiation; vehicles; interfaces
54. AU - Gorbeshko, M.V.; Romanov, V.V.  
TI - Propelling devices for all-terrain vehicles  
OTI - Dvizhitel' vnedorozhnogo transportnogo sredstva  
SO - Promyshlennyi transport, No. 7, July 1979, p 7  
LA - Rus  
IT - all-terrain vehicles; propellers; tracked vehicles; trafficability; vehicle wheels; swamps; tundra soils
55. AU - Rymes, J.E.  
TI - Preliminary Arctic engineering study of surface transport vehicles  
SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 7-1, Dec 1970  
LA - Eng  
IT - motor vehicles; tracked vehicles; all-terrain vehicles; winter maintenance; cold weather performance
56. AU - Wuebben, J.L.  
TI - Hydraulic model investigation of drifting snow  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 78-16, June 1978, 29 p  
LA - Eng  
IT - hydraulic structures; snowdrifts; models; boundary value problems; snow fences
57. AU - Trantham, A.W.; Womble, C.C.; Williamson, R.  
TI - Detailed combined limited technical/user test of Small Unit Support Vehicle (SUSV) BV206  
SO - Distribution limited to U.S. Government agencies only, Aberdeen Proving Ground, MD, U.S. Army Test and Evaluation Command, 1978, 123 p  
LA - Eng  
IT - all-terrain vehicles; tracked vehicles; military operation; snow vehicles; cold weather tests
58. AU - Selivanov, I.I.  
TI - New trucks of increased terrain trafficability designed in East Germany  
OTI - Novye gruzovye avtomobili FRG povyshennoi prokhodimosti  
SO - Avtomobil'naia promyshlennost'. Oct 1977, No. 10, p 32-33  
LA - Rus  
IT - design; transportation; motor vehicles

59. AU - Karlstrom, L.  
TI - Tracked vehicle "Bandvagn 206" driving test and force testing in bare and snow-covered mountain terrain  
SO - U.S. Army Foreign Science and Technology Center. Translation, Nov 3, 1977, FSTC 734-77, 6 p, Translation of Forsvaretsmaterielverk, Huvudavdelningen for Hjulfordonsbyran. Research report dated 18 May 1976. Distribution limited to U.S. Government agencies only  
LA - Eng, Swe  
IT - mountains; snow cover; tracked vehicles; cold weather tests
60. AU - Abele, G.; Walker, D.A.; Brown, J.; Brewer, M.C.; Atwood, D.M.  
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 78-16, Sep 1978, 63 p  
LA - Eng  
IT - tundra vegetation; tires; soil trafficability; damage
61. TI - Requirement for identification and characterization of snow for mobility purposes  
OS - International Society for Terrain-Vehicle Systems. Committee on Snow Mechanics Research Coordination  
SO - McGill University, Montreal. Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40. Prepared for the Sixth International Conference of the I.S.T.V.S., Vienna, Aug 1978  
LA - Eng  
IT - all-terrain vehicles; snow strength; trafficability; classifications; snow mechanics; snow vehicles
62. AU - Verzhbitskii, A.N.; Krestovnikov, G.A.  
TI - Evaluating fuel consumption by all-terrain vehicles  
OTI - Otsenka toplivnoi ekonomichnosti snegobolotokhodov  
SO - Avtomobil'naia promyshlennost', No. 10, Oct 1977, p 8-10  
LA - Rus  
IT - swamps; snow cover; motor vehicles; all-terrain vehicles
63. AU - Abele, G.; Brown, J.; Brewer, M.C.; Atwood, D.M.  
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-31, Sep 1977, 32 p  
LA - Eng  
IT - patterned ground; soil moisture; air cushion vehicles; tracked vehicles; tundra vegetation; vehicle wheels; environmental impact; damage
64. AU - Hosoya, M.; Tsuchiya, K.; Yamamoto, R.  
TI - Report on the operation of mechanical transport for the JARE South Pole Traverse 1968-69  
SO - Japanese Antarctic Research Expedition. Scientific reports, Special issue No. 2, March 1971, p 204-261



- LA - Eng  
 IT - expeditions-Jare South Pole Traverse-1968-1969; cargo operations-oversnow; fuel; low temperature effects-on equipment; sleds; transportation-oversnow; traverse operations; vehicles
65. AU - Radforth, J.R.; Burwash, A.L.  
 TI - Transportation  
 SO - Muskeg Research Conference, 15th, Edmonton, Alberta, 1973. Proceedings. Edited by N.W. Radforth and C.O. Brawner, University of Toronto Press, 1977, p 249-263  
 LA - Eng  
 IT - thermal effects; construction; muskeg; transportation; all-terrain vehicles; environmental impact; trafficability; arctic vegetation
66. TI - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976  
 OS - Canadian Society for Terrain Vehicle Systems, 1977  
 LA - Eng  
 IT - all-terrain vehicles; vehicle wheels; tracked vehicles; snow roads
67. AU - Boughton, J.C.  
 TI - Arctic requirements of off-highway vehicles  
 SO - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976, VII/1-VII/17, Calgary, Canadian Society for Terrain Vehicle Systems, 1977  
 LA - Eng  
 IT - all-terrain vehicles; military operation; logistics; cost analysis
68. TI - Industrial vehicles corporation's "Bolzano Series" features integral traction, high maneuverability  
 OTI - La "Gamma Bolzano" dell'Iveco: veicoli a trazione integrale ad elevata manovrabilita  
 SO - Strade e traffico, No. 262, Nov-Dec 1977, p 4-7  
 LA - Ita  
 IT - winter maintenance; road maintenance; snow removal equipment; all-terrain vehicles
69. AU - Abele, G.; Brown, J.  
 TI - Arctic transportation: operational and environmental evaluation of an air cushion vehicle in northern Alaska  
 SO - Journal of Pressure Vessel Technology, Report Number MP 985, vol. 99, no. 1, Feb 1977, p 176-192  
 LA - Eng  
 IT - environmental impact; tundra vegetation; damage; air cushion vehicles; transportation; trafficability; arctic terrain; environments

70. AU - Cooper, D.W.; Mueller, R.A.; Schertler, R.J.  
TI - Remote profiling of lake ice using an S-band short-pulse radar aboard an all-terrain vehicle  
SO - Radio Science, vol. 11, no. 4, Apr 1976, p 375-381  
LA - Eng  
IT - airborne radar; accuracy; all-terrain vehicles; profiles; lake ice; ice cover thickness; radar echoes
71. AU - Andersson, B.  
TI - Development of tracked vehicle 206  
OTI - Utveckling av bandvagn 206  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM meddelande, No. 22, 1977, p 61-74  
LA - Swe, Eng  
IT - tracked vehicles; muskeg; all-terrain vehicles; bearing capacity
72. AU - Uspenskii, I.N.; Savinov, B.V.  
TI - Torque variations in all-terrain vehicle transmissions  
OTI - Krutil'nye kolebaniia v transmissii vezdekhodnykh mashin  
SO - Gorkii. Politekhnikheskii Institut. Trudy, vol. 25, no. 9, 1969, p 51-56  
LA - Rus  
IT - analysis-mathematics; all-terrain vehicles
73. TI - SFM Muskeg Conference, Oct 6-10, 1976  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, 98 p  
LA - Swe, Eng  
IT - meetings; Sweden; muskeg; organic soils; soil trafficability; all-terrain vehicles
74. AU - Scholander, J.  
TI - Field tests on organic terrain with an articulated tracked vehicle  
OTI - Korforsok med bandvagn 202 a pa myrmark  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 47-52  
LA - Swe, Eng  
IT - organic soils; soil trafficability; roots; muskeg; all-terrain vehicles; arctic vegetation; damage
75. AU - Hag, B.  
TI - Regulations for driving in terrain with terrain and motor vehicles  
OTI - Foreskrifter for korning i terrang med terrangfordon och motorfordon  
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 57-60  
LA - Swe, Eng  
IT - Sweden; all-terrain vehicles; arctic terrain; muskeg; soil trafficability

76. AU - Adzhiev, M.E.  
TI - Boundaries of the Arctic region  
OTI - Razmyshleniia o granitsakh Severa  
SO - Priroda, No. 10, Oct 1976, p 29-41  
LA - Rus  
IT - mapping; cold weather construction; all-terrain vehicles; Arctic regions; climatic factors; permafrost
77. TI - Proceedings. Vol. 1. International Conference on Terrain-Vehicle Systems, 5th, Detroit, Houghton, Michigan, June 2-6, 1975, 288 p  
LA - Eng  
IT - all-terrain vehicles; soil strength; trafficability
78. AU - Karafiath, L.L.  
TI - Running gear-soil modeling for off-road vehicles  
SO - International Conference on Terrain-Vehicle Systems, Detroit, Houghton, MI, June 2-6, 1975. Proceedings. Vol. 1, p 221-247  
LA - Eng  
IT - models; all-terrain vehicles; soil strength; tires; trafficability
79. AU - Barkhtanov, L.V.  
TI - Practicality of all-terrain vehicles  
OTI - K voprosu o prokhodimosti vezdekhodnykh mashin  
SO - Gorkii. Politekhnikheskii Institut. Trudy, vol. 25, no. 9, 1969, p 46-50  
LA - Rus  
IT - analysis vehicles-mathematics; computer simulation; trafficability; all-terrain
80. AU - Hanamoto, B.  
TI - Effect of snow cover on obstacle performance of vehicles  
SO - Journal of Terramechanics, Report Number MP 933, vol. 13, no. 3, 1976, p 121-140  
LA - Eng  
IT - tracked vehicles; snow cover effect; cold weather performance; topographic features; trafficability; snow vehicles
81. AU - Hibler, W.D., III  
TI - Sea ice terrain and mobility model  
SO - Army Science Conference, West Point, June 1974. Proceedings. Vol. 1, p 447-454  
LA - Eng  
IT - ice surface; ice pressure; air cushion vehicles; sea ice; pack ice; trafficability
82. AU - Zlobin, G.P.; Smigel'skii, S.P.  
TI - Hydrofoil and air cushion vessels  
OTI - Suda na podvodnykh kryl'iakh i vozdushnoi podushke

- SO - Leningrad, Sudostroenie, 1976, 263 p (Pertinent p 138-262),  
 LA - Rus  
 IT - hydrofoil craft; all-terrain vehicles; air cushion vehicles
83. AU - Dibbern, J.S.  
 TI - Oversnow and adverse-terrain vehicles-foreign  
 OS - U.S. Army Foreign Science and Technology Center  
 SO - Washington, DC, U.S. Defense Intelligence Agency, Sep 1976,  
 108 p  
 LA - Eng  
 IT - design criteria; cold weather operation; all-terrain  
 vehicles; military transportation; snow vehicles
84. AU - Agranat, G.A.; Andreeva, E.N.  
 TI - Study, protection, and utilization of the natural environment  
 in Alaska and the Canadian North  
 SO - Problems of the North, No. 18, 1973, (Pub. Dec 76), p 339-367  
 LA - Eng, Rus  
 IT - permafrost preservation; swamps; ecology; subarctic soils;  
 forest tundra; subarctic vegetation; human factors; transportation;  
 air cushion vehicles; all-terrain vehicles; environments
85. AU - Clark, E.F.; Slaughter, C.W.  
 TI - Transportation for Subarctic research  
 SO - Presented at the 24th Alaska Science Conference, College,  
 Alaska, Aug 1973. Fairbanks, University of Alaska, 1974  
 LA - Eng  
 IT - transportation; subarctic terrain; all-terrain vehicles
86. AU - Abele, G.; Parrott, W.H.  
 TI - Some effects of air cushion vehicle operations on deep snow  
 SO - International Conference on Terrain-Vehicle Systems, 4th,  
 Stockholm, April 24-28, 1972. Proceedings. Vol. 2, Report Number  
 MP 887, Stockholm, Sweden, 1972, p 214-241  
 LA - Eng  
 IT - surface properties; tests; air cushion vehicles; snow depth;  
 erosion
87. AU - Harwood, T.A.  
 TI - Some considerations for off-road vehicles in northern  
 conditions  
 SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970,  
 Proceedings. Vol. 2, Ottawa, Canada, 1971, p 197-219  
 LA - Eng  
 IT - all-terrain vehicles; climatic factors; snow cover structure;  
 muskeg; tracked vehicles
88. TI - Proceedings. Vol. 2. International Conference on  
 Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972  
 SO - Stockholm, Sweden, 1972, 258 p  
 LA - Eng  
 IT - snow depth; snow strength; tests; air cushion vehicles;

trafficability; all-terrain vehicles

89. AU - Carpentier, M.  
TI - Off-road vehicles - environmental considerations  
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970, Proceedings. Vol. 2, Ottawa, Canada, 1971, p 229-234  
LA - Eng  
IT - all-terrain vehicles; transportation
90. AU - Slaughter, C.W.  
TI - Vehicle for the future  
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land Management, Aug 1976, p 272-279  
LA - Eng  
IT - ground thawing; air cushion vehicles; arctic soils; arctic terrain; damage
91. AU - Abele, G.  
TI - Introduction to air cushion vehicles  
SO - Presented at the American Society of Agricultural Engineers, Winter Meeting, 1974, Chicago, IL. U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, 1974  
LA - Eng  
IT - air cushion vehicles; all-terrain vehicles
92. AU - Harrison, R.T.  
TI - ORV's: environmental effects  
SO - Arctic Soils Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 256-267  
LA - Eng  
IT - snow vehicles; pollution; damage; all-terrain vehicles
93. AU - Engen, D.L.  
TI - Military maneuvers and surface disturbance  
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 91-94  
LA - Eng  
IT - military operation; military transportation; arctic terrain; protection; all-terrain vehicles
94. AU - Schindler, J.F.  
TI - Transportation during exploration of Naval Petroleum Reserve No. 4  
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 95-101  
LA - Eng  
IT - all-terrain vehicles; logistics; tractors; sleds; arctic terrain; transportation; preserving

95. AU - Hall, G.A.  
TI - ORV use on state lands  
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 56-59  
LA - Eng  
IT - ecosystems; arctic soils; all-terrain vehicles; tundra terrain; protection
96. AU - Sexton, M.L.  
TI - Vehicles and roads for petroleum exploration  
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 80-81  
LA - Eng  
IT - snow roads; arctic terrain; all-terrain vehicles; petroleum transportation
97. AU - Evans, M.N.  
TI - Proceedings of the Surface Protection Seminar. Theme: travel and transportation practices to prevent surface destruction in the northern environment, January 19-22, 1976, Anchorage, Alaska  
SO - Bureau of Land Management, Anchorage, AK, Aug 1976, 298 p  
LA - Eng  
IT - fire protection; damage; meetings; arctic terrain; tundra terrain; protection; permafrost preservation; all-terrain vehicles; vegetation; arctic soils
98. AU - Bocharov, N.F.; Gusev, V.I.; Semenov, V.M.; Solov'ev, V.I.; Filiushkin, A.V.  
TI - Transportation vehicles on highly elastic propelling devices  
OTI - Transportnye sredstva na vysokoelastichnykh dvizhiteliakh  
SO - Moscow, Mashinostroenie, 1974, 208 p  
LA - Rus  
IT - motor vehicles; all-terrain vehicles; tracked vehicles; vehicle wheels
99. TI - All-terrain vehicles symposium  
SO - Oilweek, July 12, vol. 27, no. 22, 1976, p 10-11  
LA - Eng  
IT - meetings; air cushion vehicles; snow roads
100. AU - Rush, E.S.; Schreiner, B.G.  
TI - Trafficability tests on unconfined organic terrain (muskeg); Summer 1963 tests  
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS. Technical Report, No. 3-744, Nov 1966, 44 p  
LA - Eng  
IT - soil trafficability; all-terrain vehicles; muskeg; permafrost depth

101. AU - Hanamoto, B.  
TI - Effects of variation in drawbar hitch location on vehicle performance  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 237, Sep 1975, 16 p  
LA - Eng  
IT - all-terrain vehicles; snow cover effect; noncohesive soils
102. AU - Bekker, M.G.  
TI - Russian approach to terrain-vehicle systems. Final report  
SO - Delco Electronics Division, GMC, Goleta, CA, Aug 1971, 386 p  
LA - Eng  
IT - all-terrain vehicles; bibliographies
103. AU - Aslanov, G.A.  
TI - Organization of subglacial fishing using snow vehicles  
OTI - Organizatsiia podlednogo lova s ispol'zovaniem snegokhodov  
SO - Rybnoe Khoziaistvo, No. 2, Feb 1976, p 53-54  
LA - Rus  
IT - trafficability; icebound rivers; all-terrain vehicles; tracked vehicles; snow depth; snow vehicles; ice drills
104. AU - Anderson, A.D.  
TI - Arctic off-highway transportation  
SO - Civil Engineering, vol. 46, no. 3, Mar 1976, p 72-75  
LA - Eng  
IT - transportation; tires; cold weather operation; permafrost; tundra terrain; air cushion vehicles; all-terrain vehicles
105. AU - Radforth, J.R.  
TI - Long term effects of summer traffic by tracked vehicles on tundra  
SO - Task Force on Northern Oil Development. Environmental-Social Committee. Report, No. 73-22, 1973, 60 p  
LA - Eng  
IT - aerial photography; tundra terrain; trafficability; tires; tundra vegetation; thermokarst; vehicle wheels; damage; long range forecasting
106. AU - Riabov, V.P.; Shubin, M.A.; Erastov, A.IA.  
TI - Access roads built along railroad tracks  
OTI - Pritrassovye i pod'ezdnye avtomobil'nye dorogi  
SO - Moscow, Transport, 1975, 101 p  
LA - Rus  
IT - railroad tracks; roads; motor vehicles; roadbeds; permafrost beneath roads; taiga terrain; mountains; snow roads; ice roads
107. AU - Frost, R.E.; Johnson, P.L.; Leighty, R.D.; Anderson, V.H.; Poulin, A.O.; Rinker, J.N.

- TI - Mobility environmental research study: a quantitative method for describing terrain for ground mobility. Vol. VI. Selected air-photo patterns of terrain features  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory, U.S. Army Waterways Experiment Station, Vicksburg, MS. Technical Report No. 3-726, May 1966  
 LA - Eng  
 IT - Thailand; terrain analysis; aerial photography; photo interpretation; vegetation patterns
108. AU - Hibler, W.D., III; Ackley, S.F.  
 TI - Height variation along sea ice pressure ridges and the probability of finding "holes" for vehicle crossings  
 SO - Journal of Terramechanics. vol. 12, no. 3/4, Dec 1975, p 191-199  
 LA - Eng  
 IT - sea ice; pressure ridges; air cushion vehicles; ice crossings; height finding
109. AU - Stepanov, A.P.  
 TI - Amphibian motor vehicles  
 OTI - Plavaiushchie mashiny  
 SO - Moscow, DOSAAF, 1975, 189 p  
 LA - Rus  
 IT - ice navigation; all-terrain vehicles
110. AU - Fomin, A.E.; Gabelaia, R.D.; Kondrakhin, A.I.  
 TI - Building pipelines in swamp without log roads  
 OTI - Prokladka truboprovoda na zabolochennykh uchastkakh bez ustroystva lezhnevnykh dorog  
 SO - Stroitel'stvo truboprovodov, No. 11, Nov 1975, p 31-32  
 LA - Rus  
 IT - swamps; pipe laying; all-terrain vehicles
111. AU - Hibler, W.D., III; Ackley, S.F.  
 TI - Sea ice terrain model and its application to surface vehicle trafficability  
 SO - Journal of Terramechanics, vol. 12, no. 3/4, Dec 1975, p 171-190  
 LA - Eng  
 IT - sea ice; pressure ridges; air cushion vehicles; trafficability; models; terrain analysis
112. AU - Klímenko, A.I.  
 TI - Land transportation of the future  
 OTI - Nazemnyi transport budushchego  
 SO - Moskovskii rabochii, 1975, 120 p  
 LA - Rus  
 IT - all-terrain vehicles; air cushion vehicles; snow vehicles
113. AU - Chudakov, D.A.; Skotnikov, V.A.; Kolosha, V.G.  
 TI - Properties and trafficability indices of swamp tractors  
 OTI - Svoistva i pokazateli prokhodimosti bolotokhodnykh traktorov



- SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 8, Aug 1975, p 36-38  
 LA - Rus  
 IT - trafficability; all-terrain vehicles; swamps
114. AU - Wastenson, L.  
 TI - Mapping off-the-road mobility of terrain vehicles  
 OTI - Kartering av framkomlighetsmojligheter for terrangfordon  
 SO - Uppsala. Universitet. Naturgeografiska institutionen. UNGI rapport, No. 34, 1974, p 403-418  
 LA - Swe, Eng  
 IT - soil trafficability; motor vehicles; terrain identification; aerial photographs; photointerpretation
115. AU - Fowler, H.S.  
 TI - Air cushion vehicle as a load-spreading transport device  
 SO - Journal of Terramechanics, vol. 12, no. 2, Sept 1975, p 43-53  
 LA - Eng  
 IT - air cushion vehicles; all-terrain vehicles; topographic effects
116. AU - Kjellin, P.  
 TI - Effects of snowmobiles and other off-road vehicles on vegetation  
 OTI - Snoskoterns och andra terrangmotorfordons inverkan pa vegetationen  
 SO - Motortrafic i terrang-forskningsrapporter om miljöeffekter, In Swedish with English summary and captions. Solna, Sweden, Statens naturvardsverk, 1975, p 115-168  
 LA - Swe, Eng  
 IT - all-terrain vehicles; vegetation patterns; damage; snow cover effect
117. AU - Thomas, I.A.  
 TI - Northern off-road transportation in the 70's  
 SO - American Society of Civil Engineers, Construction Division. Journal, vol. 101, CO3, Sept 1975, p 635-646  
 LA - Eng  
 IT - design; all-terrain vehicles; tracked vehicles; snow vehicles
118. AU - Rickard, W.E.; Brown, J.  
 TI - Effects of vehicles on Arctic tundra  
 SO - Environmental Conservation, vol. 1, no. 1, Spring 1974, p 55-62  
 LA - Eng  
 IT - tundra terrain; all-terrain vehicles; damage; ground thawing
119. AU - Wismer, R.D.; Freitag, D.R.; Schafer, R.L.  
 TI - Application of similitude to soil-machine systems  
 SO - Prepared for presentation at the Sixth Seminar on the Similitude of Soil Machine Systems, Feb 4-5, 1975, USDA National Tillage Machinery Laboratory. Report Number MP 829, 37 p, St. Joseph, MI, American Society of Agricultural Engineers, 1975

- LA - Eng  
IT - models; all-terrain vehicles; tires; traction; earth handling equipment; soil structure
120. AU - Radforth, J.R.; Korpijaakko, E.; Radforth, N.W.  
TI - Rut damage on frozen organic terrain  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p 21-26  
LA - Eng, Fre  
IT - permafrost beneath roads; muskeg; damage; trafficability; tundra soils; tundra vegetation; tracked vehicles
121. AU - Murchison, H.G.  
TI - Preliminary studies of an air cushion vehicle for logging in Eastern Canada  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p 123-146  
LA - Eng, Fre  
IT - Arctic terrain; muskeg; air cushion vehicles
122. AU - Thomas, I.A.  
TI - More science, less art in tracked vehicles  
SO - Engineering Journal, vol. 58, no. 1, March/April 1975, p 6-10  
LA - Eng  
IT - cold weather operation; tracked vehicles; all-terrain vehicles
123. AU - Gatto, L.W.; Anderson, D.M.  
TI - Alaskan thermokarst terrain and possible Martian analog  
SO - Science, vol. 188, no. 4185, April 18, 1974, p 255-257  
LA - Eng  
IT - remote sensing; thermokarst; Mars-planet; ground ice
124. TI - Greening of construction: equipment whips its biggest-and toughest-challenge on the Trans-Alaska pipeline  
SO - Construction Equipment, vol. 51, no. 4, April 1975, p 49-53, 56-59, 62-63  
LA - Eng  
IT - permafrost preservation; drills; vehicle wheels; pipe laying; cold weather construction; construction equipment; all-terrain vehicles; snow roads; winter maintenance
125. AU - Ives, J.D.  
TI - Impact of motor vehicles on the tundra environment  
SO - Arctic and Alpine Environments, edited by J.D. Ives and R.G. Barry, London, Methuen and Co., 1974, p 907-910  
LA - Eng  
IT - tundra; all-terrain vehicles; damage

126. TI - Easy glider of the Arctic  
SO - North/nord, vol. 20, no. 3, May-June 1972, p 13-15  
LA - Eng  
IT - Arctic terrain; air cushion vehicles; tundra terrain
127. AU - Beattie, C.A.; Erickson, D.; Martin, A.; Gray, D.M.  
TI - Energy budget studies in the Arctic over areas subjected to different levels of vehicular activity-1972-1973  
SO - Task Force on Northern Oil Development. Environmental-Social Committee. Ottawa, Information Canada, 1973, Report 73-23, 32 p  
LA - Eng  
IT - all-terrain vehicles; heat transfer; solar radiation; heat balance; radiation balance; tundra soils; damage; environmental impact
128. AU - Radforth, J.R.  
TI - Immediate effects of wheeled vehicle traffic on tundra during the summer  
SO - Canada. Department of Indian Affairs and Northern Development. IAND publication, No. QS-3033-000-EE-A1, 1973, 32 p  
LA - Eng  
IT - tires; long range forecasting; Canada-Northwest Territories-Richards Island; tundra terrain; tundra vegetation; vehicle wheels; trafficability
129. AU - Brooks, E.N., Jr.; Bernitt, C.L.  
TI - Twin-cushion surface effect vehicle  
SO - Canadian Aeronautics and Space Journal, vol. 20, no. 8, Oct 1974, p 417-424  
LA - Eng  
IT - air cushion vehicles; experimental data; all-terrain vehicles; pressure ridges
130. AU - Wilson, N.E.  
TI - Stress distribution in organic soils under traffic loading  
SO - Canadian Peat Symposium. Proceedings, Sherbrooke University, 1972, 17 p  
LA - Eng  
IT - peat; deformation; shear strength; organic soils; trafficability; all-terrain vehicles; soil strength; dynamic loads
131. AU - Ilon, B.E.  
TI - Vehicle for use on land, in water, on ice and in snow  
SO - U.S. Patent Office. Patent, June 4, 1974, 8 p  
LA - Eng  
IT - all-terrain vehicles; snow vehicles; tracked vehicles
132. AU - Liston, R.A.  
TI - Air cushion vehicle: Key to an Alaskan transportation system?  
SO - High Speed Ground Transportation Journal, vol. 7, no. 2, 1973, p 247-263

- LA - Eng  
IT - air cushion vehicles; all-terrain vehicles; transportation
133. AU - Hosoya, M.  
TI - Ability of KD-60 snow car and its problems  
SO - Polar News, vol. 5, no. 1, July 1969, p 7-12  
LA - Jap  
IT - vehicles-tractors; transportation-oversnow; sleds; snow vehicles; tracked vehicles; design criteria; cold weather operation; sleds
134. AU - Rickard, W.E.; Slaughter, C.W.  
TI - Thaw and erosion on vehicular trails in permafrost landscapes  
SO - Journal of Soil and Water Conservation, vol. 26, no. 8, Nov-Dec 1973, p 263-266  
LA - Eng  
IT - permafrost transformation; soil erosion; ground thawing; ground ice; vehicles
135. AU - Agranat, G.A.; Andreeva, E.N.  
TI - Studies, preservation, and utilization of natural environments in northern regions abroad  
OTI - Izuchenie, okhrana i ispol'zovanie prirodnoi sredy na Zarubezhnom Severe  
SO - Problemy Severa, Vol. 18, 1973, p 196-212  
LA - Rus  
IT - permafrost preservation; swamps; ecology; subarctic soils; forest tundra; subarctic vegetation; human factors; transportation; air cushion vehicles; all-terrain vehicles; environments
136. AU - Mock, S.J.; LaGarde, V.; Tucker, W.B.  
TI - Arctic terrain characteristics data bank  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 247, March 1974, 47 p  
LA - Eng  
IT - arctic terrain; data processing; sea ice; ice navigation; aerial photography; air cushion vehicles
137. AU - Thomas, M.W.  
TI - Ground transportation for polar operations - 16-wheel Low-Ground-Pressure Vehicle (LGPV-16)  
SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory. Technical note, N-1422, Jan 1976, 29 p  
LA - Eng  
IT - vehicles; transportation-oversnow; Antarctica-McMurdo Station; snow vehicles; cold weather tests; tires; design criteria
138. AU - Brown, J.  
TI - Ecological and environmental consequences of off-road traffic in northern regions

- SO - Surface Protection Seminar, Anchorage, AL, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 40-53  
 LA - Eng  
 IT - human factors; thaw depth; soil trafficability; vegetation protection; damage; ground thawing; permafrost preservation; arctic soils; tundra terrain; all-terrain vehicles; protection
139. AU - Morris, E.C.; Mutch, T.A.; Holt, H.E.  
 TI - Atlas of geological features in the Dry Valleys of South Victoria Land, Antarctica; possible analogs of Martian surface features  
 SO - Interagency Report: Astrogeology, No. 52, Sept 1972, 156 p  
 LA - Eng  
 IT - geology; geomorphology; photographs
140. AU - Abele, G.  
 TI - Hovercraft ground contact directional control devices  
 SO - International Hovering Craft, Hydrofoil and Advanced Transit Systems Conference, 2nd, Amsterdam, May 17-20, 1976. Proceedings, Kalerlgic Publications, London, 1976, p 51-59,  
 LA - Eng  
 IT - tundra terrain; impact; all-terrain vehicles; air cushion vehicles; vehicle wheels
141. AU - Liston, R.A.  
 TI - Air cushion vehicle operations in Arctic and Subarctic terrain  
 SO - International Automotive Engineering Congress, Detroit, MI, January 8-12, 1973, Society of Automotive Engineers, Inc., New York, 1973, 14 p  
 LA - Eng  
 IT - air cushion vehicles; cold weather operation
142. AU - Walker, D.A.; Webber, P.J.; Everett, K.R.; Brown, J.  
 TI - Effects of low-pressure wheeled vehicle on plant communities and soils at Prudhoe Bay, Alaska  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-17, June 1977, 49 p  
 LA - Eng  
 IT - United States - Alaska-Prudhoe Bay; tundra terrain; damage; all-terrain vehicles; tires; tundra vegetation
143. AU - Belinskii, A.IU.  
 TI - Passenger transport in northern population resettlement systems  
 OTI - Passazhirskii transport v sistemakh rasselenia Severa  
 SO - Problemy Severa, Vol. 20, 1979, p 98-105  
 LA - Rus  
 IT - transportation; airplanes; air cushion vehicles; motor vehicles; all-terrain vehicles; swamps; ice navigation; snow roads; ice roads

144. AU - Gay, R.R.; Harju, W.P.  
TI - A statistical approach of determining cross-country speed  
SO - Society of Automotive Engineers, Technical Paper No. 690151  
IT - military vehicle mobility; statistics
145. AU - Dykins, J.E.; Coffin, R.C.; Moser, E.H.  
TI - Squaw Valley Winter Trails, 1957-1958. Compacted-snow packing lot study  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Report, R-9, Sept 1958, 36 p  
LA - Eng  
IT - snow compaction; trafficability; maintenance
146. AU - Botvinnikov, V.I.; Tsepliaev, V.M.  
TI - Transportation development in the areas of discoveries of new natural resources in West Siberia  
OTI - O transportnom osvoenii novykh kompleksov prirodnykh resursov Zapadnoi Sibiri  
SO - Problemy osvoeniia Zapadno-Sibirskoi neftegazonosnoi provintsii (Economic development of the West Siberian petroleum province), Novosibirsk, 1966, p 58-66  
LA - Rus  
IT - subarctic regions; transportation; construction equipment; petroleum transportation; railroads; roads; all-terrain vehicles; pipelines; air cushion vehicles
147. AU - Ives, G.  
TI - Air cushion vehicle's operation use in Arctic  
SO - Petroleum Engineer International, vol. 46, no. 1, Jan 1974, p 64, 66  
LA - Eng  
IT - all-terrain vehicles; ice breaking; logistics; air cushion vehicles
148. AU - Tiuktiaev, I.; Zhabrov, A.; Solomko, A.  
TI - Using all-terrain vehicles for labor-consuming work  
OTI - Mekhanizatsiia trudoemkikh rabot na baze vezdekhodnoi mashiny  
SO - Rybovodstvo i rybolovstvo, No. 5, Sept-Oct 1973, p 10-12  
LA - Rus  
IT - cost analysis; lakes; swamps; all-terrain vehicles
149. AU - Svitov, I.  
TI - Combat encounter on mountain-taiga terrain  
OTI - Vstrechnyi boi v gorno-taezhnoi mestnosti  
SO - Voennyi vestnik, No. 4, April 1973, p 54-58  
LA - Rus  
IT - taiga terrain; taiga vegetation; military operation; tanks-combat vehicles
150. AU - Liston, R.A.  
TI - Operational evaluation of the SK-5 air cushion vehicle in Alaska

- SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TR 243, Sept 1973, 39 p  
LA - Eng  
IT - air cushion vehicles; cold weather tests
151. AU - Gur'ev, I.U.S.; Sushkin, A.M.  
TI - Rubber-metal caterpillar tracks for excavators operating in  
peat swamps  
OTI - Rezino-metallicheskie gusenitsy dlia torfianyx i  
meliorativnykh mashin  
SO - Stroitel'nye i dorozhnye mashiny, No. 7, July 1973, p 4-5  
LA - Rus  
IT - swamps; peat; tracked vehicles; trenching; all-terrain  
vehicles
152. AU - Kriukov, E.A.; Morgachev, I.I.; Rozhnov, A.I.  
TI - Peatbog and meliorative equipment with fluid drives  
OTI - Meliorativnye i torfiane mashiny s gidroprivodom  
SO - Stroitel'nye i dorozhnye mashiny, No. 9, Sept 1973, p 19-23  
LA - Rus  
IT - swamps; frozen ground; earthwork; excavating equipment; all-  
terrain vehicles
153. TI - Trials of an SR.N6 hovercraft at Churchill, Manitoba,  
January-March 1968  
SO - Canada. Defence Research Board. Report, No. DR 182, 1968,  
128 p  
LA - Eng  
IT - ice structure; sea ice; ice navigation; cold weather  
operation; arctic terrain; vegetation factors; icing; air cushion  
vehicles
154. AU - Le Schack, L.A.; Long, J.B.  
TI - Examining some design parameters for Arctic surface effect  
vehicles by means of airborne laser profilimetry  
SO - Hovering Craft and Hydrofoil, vol. 11, no. 12, Sept 1972,  
p 18-23  
LA - Eng  
IT - air cushion vehicles; microrelief; pack ice; sea ice; ice  
surface; arctic terrain; lasers
155. AU - Bamford, M.A.T.  
TI - Tracked vehicle design for Arctic applications  
SO - Engineering Journal, vol. 56, no. 7-8, July/Aug 1973, p 31-34  
LA - Eng  
IT - arctic soil; design criteria; materials; all-terrain vehicles;  
tracked vehicles; snow vehicles
156. AU - Vincent, C.R.  
TI - Rolligons work well in Arctic  
SO - Oil and Gas Journal, vol. 71, no. 37, Sept 10, 1973, p 102-103  
LA - Eng

- IT - vehicle wheels; tundra terrain; all-terrain vehicles
157. TI - Unique vehicle on rollers conquers Arctic in stride  
SO - Pipeline and Gas Journal, vol. 199, no. 8, July 1972, p 26-27  
LA - Eng  
IT - design criteria; all-terrain vehicles
158. AU - Liston, R.A.  
TI - Observations of surface effect vehicle performance  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 240, April 1973, 59 p  
LA - Eng  
IT - air cushion vehicles; arctic terrain; design criteria
159. AU - Forsyth, R.W.; Forsyth, J.P.  
TI - New high-mobility military vehicles  
SO - Automotive Industries, vol. 132, no. 8, April 1965, p 102  
LA - Eng  
IT - all-terrain vehicles
160. AU - Areshoug, S.  
TI - Proposed method for determining mobility of vehicles and motorized units on the road and cross country  
OTI - Forslag till metod for restamning av fordons och motoriserade forbands rolighet pa vag och i terrang  
SO - U.S. Army Foreign Science and Technology Center. Technical translation, March 15, 1973-FSTC-HT-23-1850-72, 42 p  
LA - Eng, Swe  
IT - trafficability; all-terrain vehicles; terrain analysis; design criteria
161. AU - Radforth, J.R.  
TI - Effects of off-road vehicle trails on the active layer in tundra  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 103, Dec 1971, p 48-49  
LA - Eng  
IT - active layer; tundra terrain; all-terrain vehicles; human factors; conservation
162. AU - Hanamoto, B.  
TI - Effect of snow cover on obstacle-crossing performance of vehicles  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 239, Nov 1972, 29 p  
LA - Eng  
IT - topographic features; tracked vehicles; snow cover effect; cold weather performance; snow vehicles



163. AU - Nichols, L.G.  
TI - Air cushion transporter - solution to many Arctic transportation problems  
SO - Offshore Technology Conference. No. 4, 1972, p II/593-II/596  
LA - Eng  
IT - air cushion vehicles; all-terrain vehicles
164. AU - Korsak, V.K.  
TI - Selecting motor- and all-terrain vehicles for operation in the North  
OTI - O vybore sredstv avtomobil'nogo i bezdorozhnogo transporta dlia raboty na Severe  
SO - Problemy Severa, Vol. 17, 1972, p 103-108  
LA - Rus  
IT - cold weather performance; cold weather operation; tracked vehicles; motor vehicles; all-terrain vehicles; tires; rubber-snow friction
165. AU - Khanzhonkov, V.I.  
TI - Aerodynamics of air cushion vehicles  
OTI - Aerodinamika apparatov na vozdukhnoi podushke  
SO - Moscow, Mashinostroenie, 1972, 328 p  
LA - Rus  
IT - design criteria; air cushion vehicles; all-terrain vehicles
166. AU - Ageikin, I.A.S.  
TI - Wheels and combined propulsion gear for all-terrain vehicles (theory and design)  
OTI - Vezdekhodnye kolesnye i kombinirovannye dvizhiteli (teoriia i raschet)  
SO - Moscow, Mashinostroenie, 1972, 184 p  
LA - Rus  
IT - vehicle wheels; all-terrain vehicles; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; soil trafficability
167. AU - Abel', E.B.  
TI - Increasing the ability of motor vehicles to travel under arctic conditions  
OTI - Povyshenie prokhodimosti avtomobilei v usloviakh Arktiki  
SO - Problemy Severa, Vol. 16, 1972, p 238-243  
LA - Rus  
IT - tundra terrain; snow surface; ice surface; trafficability; motor vehicles; all-terrain vehicles
168. AU - Rickard, W.E.  
TI - Preliminary ecological evaluation of the effects of air cushion vehicle tests on the arctic tundra of northern Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 182, Sept 1972, 22 p  
LA - Eng  
IT - solar radiation; patterned ground; air cushion vehicles; tundra soils; tundra vegetation; albedo; environmental tests

169. AU - Liston, R.A.  
TI - Effect of low visibility on the performance of vehicle operators  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 237, Aug 1972, 12 p  
LA - Eng  
IT - whiteout; cold weather operation; all-terrain vehicles; visibility; human factors engineering
170. AU - Miller, R.H.  
TI - Surface effect vehicles for Arctic cargo haul and distribution  
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 99-119  
LA - Eng  
IT - arctic terrain; cargo; air cushion vehicles
171. AU - Reimers, K.W.  
TI - All-season vehicle for sea ice  
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1971, p 120-127  
LA - Eng  
IT - pack ice; transportation; arctic terrain; tracked vehicles
172. AU - Faulkner, C.  
TI - Mobile laboratories and work platforms  
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 128-140  
LA - Eng  
IT - arctic terrain; air cushion vehicles; laboratory techniques
173. AU - Harwood, T.A.; Yong, R.N.  
TI - Northland vehicle considerations  
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 104, 1972, p 129-145  
LA - Eng, Fre  
IT - all-terrain vehicles; tracked vehicles; soil trafficability
174. AU - Shugurov, L.M.  
TI - Giant automobiles  
OTI - Avtomobili-giganty  
SO - Moscow, Znanie, 1971, 48 p, (Pertinent pages 4-15)  
LA - Rus  
IT - motor vehicles; all-terrain vehicles; tires; rubber-snow friction
175. AU - Beskin, I.A.  
TI - Off-the-road transportation vehicles  
OTI - Transport dlia bezdorozh'ia  
SO - Moscow, Znanie, 1971, 48 p

AD-A108 228

COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH

F/G 15/5

MOBILITY BIBLIOGRAPHY.(U)

NOV 81 N LISTON, M HUTT, L WHITE

UNCLASSIFIED

CRREL-SR-81-29

NL

1 of 4

AD-A

CRREL

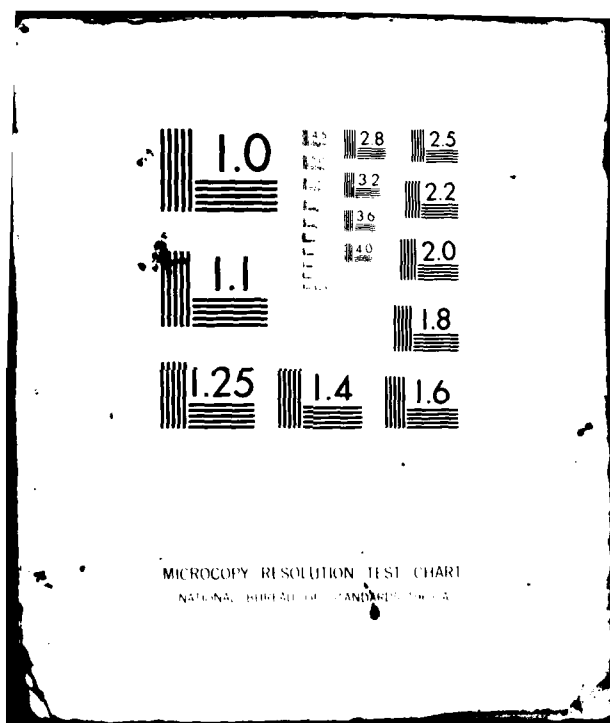
END

DATE

FILED

1 82

DTIC



- LA - Rus  
IT - snow cover effect; motor vehicles; all-terrain vehicles; tracked vehicles; air cushion vehicles; soil trafficability
176. AU - Cherkasov, A.I.  
TI - Pattern and geographic characteristics of the development of transport systems in the Canadian Far North  
OTI - Strukturno-geograficheskie osobennosti razvitiia transporta na dal'nem severe Kanady  
SO - Moscow. Universitet. Vestnik. Seriya 5 Geografiia, No. 2, March/April 1972, p 89-92  
LA - Rus, Eng  
IT - Canada - Yukon Territory; transportation; tundra terrain; roads; airplanes; air cushion vehicles; all-terrain vehicles
177. AU - Eggington, W.J.; Abel, I.  
TI - Use of surface effect vehicles for long-range Arctic missions  
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 83-98  
LA - Eng  
IT - arctic terrain; transportation; air cushion vehicles
178. AU - Wheeler, R.L.  
TI - Air cushion equipment for moving oil-rigs  
SO - Canadian Astronautics and Space Journal, vol. 18, no. 1, Jan 1972, p 17-24  
LA - Eng  
IT - air cushion vehicles; drilling; oil recovery; all-terrain vehicles
179. AU - Kay, B.  
TI - ACV transport gaining approval  
SO - Oilweek, vol. 22, no. 32, Sept 27, 1971, p 16-17  
LA - Eng  
IT - all-terrain vehicles; cold weather tests; transportation; air cushion vehicles; design criteria; cold weather operation
180. AU - Courtial, A.W.  
TI - SEV' for the Arctic  
SO - Northern Engineer, vol. 3, no. 2, Summer 1971, p 4-6  
LA - Eng  
IT - arctic regions; transportation; research programs; design criteria; air cushion vehicles; all-terrain vehicles; human factors
181. AU - Pierce, N.E.; Sherwood, G.E.  
TI - Polar transportation equipment - lightweight, 3/4 ton-unit cargo sled  
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Report, R-392, June 1965, 18 p  
LA - Eng  
IT - cargo; sleds; transportation; cold weather performance

182. AU - Nikolaev, A.F.  
TI - Learning from the penguins  
SO - Antarctica, vol. 5, no. 10, June 1970, p 427  
LA - Eng  
IT - snow vehicles; all-terrain vehicles
183. AU - Khodakov, V.G.  
TI - Structure and properties of snow cover in various landscape types  
OTI - (Struktura i svoistva snezhnogo pokrova v raznykh landshaftnykh zonakh)  
SO - Geograficheskoe obshchestvo SSSR. Zabaikal'skii filial. Izvestiia, vol. 4, no. 3, 1968, p 58-68  
LA - Rus  
IT - snow depth; snow temperature; albedo; snow density; trafficability; tracked vehicles; landscape types; snow cover distribution; tundra topography; forest tundra; taiga terrain; snow cover structure
184. AU - Zlobin, G.P.; Simonov, I.U.A.  
TI - Air cushion ships  
OTI - (Suda na vozdukhnoi podushke)  
SO - Leningrad, Sudostroenie, 1971, 212 p, (Pertinent pages 187-189)  
LA - Rus  
IT - cold weather performance; ships; air cushion vehicles; all-terrain vehicles
185. AU - Kevan, P.G.  
TI - Vehicle tracks on high Arctic tundra: An 11 year case history around Hazen Camp, Ellesmere Island, N.W.T.  
SO - Defence Research Board, Earth Sciences Division. Canada. Report, Hazen 41, Sept 1971, 17 p  
LA - Eng  
IT - snow cover effect; damage; tundra terrain; tracked vehicles; frozen ground compression; soil strength
186. AU - Gorbunov, I.U.  
TI - Operation of air cushion vehicles  
OTI - (Primenenie sudov na vozdukhnoi podushke)  
SO - Morskoi flot, No. 3, 1971, p 61-63  
LA - Rus  
IT - all-terrain vehicles; air cushion vehicles; marine transportation
187. AU - Burt, G.R.  
TI - Travel on thawed tundra  
SO - Alaska. University. Institute of Arctic Environmental Engineering. Note, N7005, Sept 1970, 23 p  
LA - Eng

- IT - tundra terrain, active layer; vehicles; tests; soil stabilization; trafficability
188. AU - Garner, A.M.; Kennedy, J.H.  
 TI - Design, fabrication and initial trials of a light amphibious Arctic transporter  
 SO - Canadian Aeronautics and Space Journal, vol. 17, no. 6, June 1971, p 229-235  
 LA - Eng  
 IT - amphibious vehicles; air cushion vehicles; all-terrain vehicles; performance
189. AU - Walker, G.  
 TI - NORSEM: a small hybrid wheeled ground effect transport for northern use  
 SO - Northern Engineer, Vol. 1, no. 3, Summer 1969, p 7, Condensed version of a paper presented to the 19th Alaskan Science Conference, Aug 1968  
 LA - Eng  
 IT - transportation; all-terrain vehicles; air cushion vehicles; motor vehicles
190. AU - Semenov, V.M.; Solov'ev, V.I.; Morozov, V.V.; Nemtinov, M.D.; Iurushkin, D.G.  
 TI - Pneumatic Caterpillar tracks for all-terrain vehicles  
 OTI - (Pnevmaticheskie gusenitsy dlia vezdekhodnykh transportnykh sredstv)  
 SO - Avtomobil'naia promyshlennost', No. 4, April 1970, p 24-26  
 LA - Rus  
 IT - all-terrain vehicles; tracked vehicles
191. AU - Shoikhet, B.M.  
 TI - Air cushion in industrial transportation  
 OTI - (Vozdushnaia podushka v promyshlennom transporte)  
 SO - Moscow, Znanie, 1970, 47 p  
 LA - Rus  
 IT - snow cover effect; transportation; air cushion vehicles; swamps
192. AU - Radforth, J.R.  
 TI - Hybrid computer simulation of terrain-vehicle systems  
 SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 90, March 1967, p 63-69  
 LA - Eng, Fre  
 IT - design criteria; muskeg; computer applications
193. AU - Timonin, A.  
 TI - Moonmobile  
 OTI - (Lunokhod)  
 SO - Nauka i zhizn', No. 2, Feb 1971, p 4-8

- LA - Rus  
IT - frost resistance; thermal insulation; all-terrain vehicles; metals
194. AU - Leighty, R.D.  
TI - Terrain mapping from aerial photography for purposes of vehicle mobility  
SO - Journal of Terramechanics, vol. 2, no. 3, 1965, p 55-67  
LA - Eng  
IT - photointerpretation; terrain analysis; photogrammetry; trafficability
195. AU - Vinogradov, B.V.  
TI - Geographic correlations in distant extrapolation of interpretation characteristics of landscape analogs  
SO - U.S. Army Materiel Command. Foreign Science and Technology Center. Technical translation, Report Number TL 179, FSTC-HT-23-740-68, Nov 1969, 54 p  
LA - Eng, Rus  
IT - aerial photography; terrain analysis; photo interpretation
196. AU - Jansen, D.  
TI - Hovercraft to forefront of Arctic petroleum hunting  
SO - Oilweek, vol. 33, no. 3, March 1971, p 40, 42, 48  
LA - Eng  
IT - snow cover effect; Canada-Northwest Territories-North Slope; ice navigation; air cushion vehicles; all-terrain vehicles; marine transportation; petroleum industry
197. AU - Ruzhitskii, E.I.  
TI - Air-cushion all-terrain vehicles  
OTI - Vozdushnye vezdekhody  
SO - Moscow, Mashinostroenie, 1964, p 178 (Pertinent pages 82-84)  
LA - Rus  
IT - air cushion vehicles
198. AU - Simakov, E.  
TI - Air-cushion all-terrain vehicles  
OTI - (Vozdushnye vezdekhody)  
SO - Moscow, DOSAAF, 1967, 79 p (Pertinent pages 33-37)  
LA - Rus  
IT - air cushion vehicles
199. AU - Agranat, G.A.  
TI - Economic development of the north outside the USSR  
OTI - (Zarubezhnyi Sever: opyt osvoeniia)  
SO - Moscow, Nauka, 1970, 414 p (Pertinent pages 100-118, 345-397)  
LA - Rus  
IT - arctic climate; arctic terrain; arctic vegetation; construction; transportation; pipelines; construction equipment



200. AU - Burt, G.R.  
TI - Summer travel on the tundra with low ground pressure vehicles  
SO - Alaska. University. Institute of Arctic Environmental Engineering. Report, N7004, 1970, 9 p  
LA - Eng  
IT - tundra terrain; vehicles; trafficability; active layer
201. AU - Brylov, S.A.; Grabchak, L.G.  
TI - Means of transportation for geological exploration  
OTI - (Transport pri geologorazvedochnykh rabotakh)  
SO - Moscow, Nedra, 1970, 184 p (Pertinent pages 47-62, 94-102, 109-113)  
LA - Rus  
IT - snow roads; ice roads; transportation; vehicles; air cushion vehicles
202. AU - Danielian, A.A.; Buvailo, I.A.; Iastrebov, P.I.  
TI - Designing certain types of equipment for oil industry for West Siberia  
OTI - (Razrabotka nekotorykh vidov neftianogo oborudovaniia dlia uslovii Zapadnoi Sibiri)  
SO - Neftianoe khoziaistvo, No. 3, March 1968, p 53-56  
LA - Rus  
IT - transportation; drilling; construction equipment; vehicles
203. AU - Imhoff, L.A.  
TI - Vehicles for travelling over various types of terrain  
SO - U.S. Patent Office. Patent, April 1, 1969, 4 p  
LA - Eng  
IT - ground cover; soil texture; skis; snow vehicles; vehicle wheels; surface roughness
204. TI - Heavy tank trailer  
SO - Avtomobil'nyi transport, No. 4, April 1968, p 59  
LA - Rus  
IT - transportation; vehicles
205. AU - Nikolaev, A.F.; Gavrilov, I.U.M.; Kuliashov, A.P.; Persikov, V.I.  
TI - Testing machines equipped with rotary propellers in swamps  
OTI - (Nekotorye rezul'taty ispytaniia mashiny na rotorno-vintovykh dvizhiteliakh v usloviakh zabolochennoi mestnosti)  
SO - Torfianaia promyshlennost', No. 12, 1969, p 2-4  
LA - Rus  
IT - lakes; swamps; propellers
206. AU - Ashdown, K.; Radforth, N.W.  
TI - Trafficability of organic terrain  
SO - National Research Council, Canada, Associate Committee on Geotechnical Research. Muskeg Research Conference, 11th, May 1965  
Proceedings, Technical memorandum No. 87, May 1966, p 184-190

LA - Eng, Fre  
IT - bearing strength; trafficability; muskeg; vehicles

207. AU - Siddall, J.N.; Newcombe, W.R.; Radforth, J.R.; Ghosh, K.K.  
TI - A rational empirical approach to muskeg vehicle research  
SO - National Research Council, Canada, Associate Committee on  
Geotechnical Research. Muskeg Research Conference, 11th, May 1965  
Proceedings, Technical memorandum No. 87, May 1966, p 191-219  
LA - Eng, Fre  
IT - design criteria; performance; vehicles; muskeg; terrain  
analysis
208. AU - Tarkhanovskii, V.  
TI - Amphibian all-terrain vehicle  
OTI - Vezdekhod-amfibiia  
SO - Izobretatel' i ratsionalizator, No. 12, Dec 1971, p 16-17  
LA - Rus  
IT - propellers; all-terrain vehicles

Chapter VIII - Amphibious vehicles.

## Chapter VIII

1. AU - El'tes, M.I.; Matskov, L.N.; Vol'skii, S.G.  
TI - Selecting propulsion gear for all-terrain vehicles  
OTI - Vybor dvizhitelia dlia transportnykh sredstv vysokoi prokhozimosti  
SO - Promyshlennyi transport, No. 6, June 1979, p 6-7  
LA - Rus  
IT - transportation; all-terrain vehicles; tracked vehicles; air-cushion vehicles; vehicle wheels; tires
2. AU - Buck, J.; Pritchett, C.W.  
TI - Air Cushion Vehicle (ACV) icebreaker test and evaluation program. Volume I. Executive summary  
SO - U.S. Coast Guard Research and Development Center. Report, CGR/DC-12-78, July 1978, 39 p  
LA - Eng  
IT - river ice; low temperature tests; icebreakers; air cushion vehicles; cold weather performance
3. AU - Buck, J.; Dennis, B.; Anthony, J.; Neal, E.  
TI - Air Cushion Vehicle (ACV) icebreaker test and evaluation program. Volume 2. Operational and engineering analysis  
SO - U.S. Coast Guard Research and Development Center. Report, CGR/DC-13-78, Aug 1978, 156 p  
LA - Eng  
IT - low temperature tests; river ice; air cushion vehicles; icebreakers; cold weather performance
4. AU - Chaplin, J.B.  
TI - Air cushion vehicle, evaluation and potential  
SO - American Society of Naval Engineers, Journal, vol. 78 no. 3, June 1966, p 421-442  
LA - Eng  
IT - vehicles-air cushion
5. AU - Abele, G.  
TI - Performance testing of an air cushion vehicle on the Greenland Ice Cap  
SO - Journal of Terramechanics, vol. 4, no. 1, 1967, p 19-30, Also: U.S. Army Cold Regions Research and Engineering Laboratory, Special report 91, Feb 1966, 19 p  
LA - Eng  
IT - vehicles-air cushion
6. TI - Arctic surface effect vehicle program. Volume 2. Technology summary and design development  
OS - U.S. Naval Ship Research and Development Center, Bethesda, MD  
SO - Distribution limited to agencies of the U.S. Government only, NSRDC-4595, 1975, 516 p  
LA - Eng  
IT - air cushion vehicles; Arctic regions; sea ice; surface roughness; engineering; logistics

7. AU - Supcoe, R.F.  
TI - Ice formation and removal aboard the Arctic surface effects vehicle  
SO - U.S. Naval Ship Research and Development Center. Report, NSRDC-28-342, Aug 1972, 22 p, Distribution limited to U.S. Government agencies only  
LA - Eng  
IT - air cushion vehicles; ice formation; ice removal
8. AU - Smith, M.; Nakano, Y.  
TI - Model analysis of vehicle trafficability with application to surface effect vehicles on sea ice fields  
SO - Journal of Terramechanics, Report Number MP 647, vol. 9, no. 2, 1973, p 65-82. For another version see RR 298, 26-3382  
LA - Eng  
IT - models, air cushion vehicles; sea ice; trafficability; statistical analysis
9. AU - Abele, G.; Brown, J.; Brewer, M.C.; Atwood, D.M.  
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-31, Sep 1977, 32 p  
LA - Eng  
IT - patterned ground; soil moisture; air cushion vehicles; tracked vehicles; tundra vegetation; vehicle wheels; environmental impact; damage
10. AU - Abele, G.; Brown, J.  
TI - Arctic transportation: operational and environmental evaluation of an Air Cushion Vehicle in northern Alaska  
SO - Journal of Pressure Vessel Technology, Report Number MP 985, vol. 99, no. 1, Feb 1977, p 176-182  
LA - Eng  
IT - environmental impact; tundra vegetation; damage; air cushion vehicles; transportation; trafficability; arctic terrain; environments
11. AU - Gran, R.  
TI - Monte Carlo analysis of a surface effect vehicle in a random ice field  
SO - Grumman Aerospace Corporation. Report, RM-554, Oct 1972, 24 p  
LA - Eng  
IT - computerized simulation; mathematical models; sea ice; pressure ridges; air cushion vehicles
12. AU - Shenfil, L.  
TI - Arctic surface effect vehicle program. Volume III. Skirt system study  
SO - Aerojet-General Corporation. Report, AGC-T-394, Oct 1973, 217 p, Distribution limited to U.S. Government agencies only

- LA - Eng  
IT - air cushion vehicles; sea ice; pressure ridges; simulation;  
tests
13. AU - Hibler, W.D., III  
TI - Sea ice terrain and mobility model  
SO - Army Science Conference, West Point, June 1974. Proceedings,  
Vol. 1, Report No. MP 794, p 447-454  
LA - Eng  
IT - ice surface; ice pressure; air cushion vehicles; sea ice; pack  
ice; trafficability
14. TI - Proceedings. Volume 2 International Conference on  
Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972  
SO - Stockholm, Sweden, 1972, 258 p  
LA - Eng  
IT - snow depth; snow strength; tests; air cushion vehicles;  
trafficability; all-terrain vehicles
15. AU - Fowler, H.S.  
TI - Air Cushion Vehicle: a possible answer to some Arctic  
transport problems  
SO - Polar Record, vol. 18, no. 114, Sep 1976, p 251-258  
LA - Eng  
IT - air cushion vehicles; ice navigation; ice breaking; water  
transport; surface roughness
16. AU - Abele, G.  
TI - Effects of air cushion vehicle operations on organic terrains  
SO - American Society of Agricultural Engineers. Paper No. 73-135,  
Report No. MP 811, 15 p, Presented at the American Society of  
Agricultural Engineers, Annual meeting, June 17-20, 1973,  
Lexington, KY, St. Joseph, MI, 1973  
LA - Eng  
IT - air cushion vehicles; tundra vegetation; muskeg; damage
17. AU - Lutton, T.C.  
TI - Air Cushion Vehicle Evaluation. San Francisco, California  
Point Barrow, Alaska. 1 January-31 August 1971  
SO - U.S. Coast Guard, ACV Evaluation Unit, San Francisco, CA.  
Report, ACV-EU-3960-01, Oct 15, 1971, 187 p  
LA - Eng  
IT - air cushion vehicles; cold weather operation; cold weather  
performance
18. AU - Chapman, R.M.; Mantle, P.J.  
TI - Arctic surface effect vehicle program by J.U. Kordenbrock and  
C.W. Harry  
SO - Naval Engineers Journal, vol. 88, no. 3, June 1976, p 63-64  
LA - Eng  
IT - air cushion vehicles; research projects

19. AU - Hibler, W.D., III; Ackley, S.F.  
TI - Height variation along sea ice pressure ridges and the probability of finding "holes" for vehicle crossings  
SO - Journal of Terramechanics, Report Number MP 848, vol. 12, no. 3/4, 1975, p 191-199  
LA - Eng  
IT - sea ice; pressure ridges; air cushion vehicles; ice crossings; height finding
20. AU - Kordenbrock, J.U.; Harry, C.W.  
TI - Arctic surface effect vehicle program  
SO - Naval Engineers Journal, vol. 88, no. 2, Apr 1976, p 70-83  
LA - Eng  
IT - cold weather operation; pack ice; air cushion vehicles; research projects; surface roughness; pressure ridges
21. AU - Grunther, R.G.; Lederman, P.  
TI - Survey of skirt materials for an Arctic surface effect vehicle  
SO - U.S. Naval Ship Research and Development Center. Report, No. 8-882, Oct 1971, 32 p, Distribution limited to U.S. Government agencies  
LA - Eng  
IT - air cushion vehicles; cold weather tests
22. AU - Fowler, H.S.  
TI - Air cushion vehicle as a load-spreading transport device  
SO - Journal of Terramechanics, vol. 12, no. 2, Sep 1975, p 43-53  
LA - Eng  
IT - air cushion vehicles; all-terrain vehicles; topographic effects
23. AU - Hibler, W.D., III; Ackley, S.F.  
TI - Sea ice terrain model and its application to surface vehicle trafficability  
SO - Journal of Terramechanics, Report Number MP 693, vol. 12, no. 3/4, Dec 1975, p 171-190  
LA - Eng  
IT - sea ice; pressure ridges; air cushion vehicles; trafficability; models; terrain analysis
24. AU - Brooks, E.N., Jr.; Bernitt, C.L.  
TI - Twin-cushion surface effect vehicle  
SO - Canadian Aeronautics and Space Journal, vol. 20, no. 8, Oct 1974, p 417-424  
LA - Eng  
IT - air cushion vehicles; experimental data; all-terrain vehicles; pressure ridges
25. AU - Murchison, H.G.  
TI - Preliminary studies of an air cushion vehicle for logging in eastern Canada

- SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p 123-146  
 LA - Eng, Fre  
 IT - Arctic terrain; muskeg; air cushion vehicles
26. AU - Cohen, V.; Rothschild, D.  
 TI - On the control of a four-vehicle train of surface effect vehicles  
 SO - Journal of Terramechanics, vol. 11, no. 3/4, 1974, p 49-78  
 LA - Eng  
 IT - analysis-mathematics; air cushion vehicles
27. AU - Hatchwell, J.A.; Lenton, R.A.  
 TI - Feasibility study of an integrated mobile data collection platform using an air cushion vehicle  
 SO - Arctic Institute of North America. Technical report, May 1972, 103 p  
 LA - Eng  
 IT - air cushion vehicles; sea ice; design criteria
28. AU - Liston, R.A.  
 TI - Air cushion vehicle: Key to an Alaskan transportation system?  
 SO - High Speed Ground Transportation Journal, Report No. MP 592, vol. 7, no. 2, 1973, p 247-263  
 LA - Eng  
 IT - air cushion vehicles; all-terrain vehicles; transportation
29. AU - Liston, R.A.  
 TI - Air cushion vehicle operations in Arctic and Subarctic terrain  
 SO - International Automotive Engineering Congress, Detroit, MI, Jan 8-12, 1973, Report No. MP 591, 14 p, New York, Society of Automotive Engineers, Inc., 1973  
 LA - Eng  
 IT - air cushion vehicles; cold weather operation
30. AU - Mock, S.J.; LaGarde, V.; Tucker, W.B.  
 TI - Arctic terrain characteristics data bank  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 247, March 1974, 47 p  
 LA - Eng  
 IT - arctic terrain, data processing; sea ice; ice navigation; aerial photography; air cushion vehicles
31. AU - Weaver, R.J.; Ramsier, R.O.  
 TI - Small air cushion vehicle operation on floating ice under winter conditions  
 SO - Canadian Aeronautics and Space Journal, vol. 19, no. 10, Dec 1973, p 497-498  
 LA - Eng  
 IT - air cushion vehicles; cold weather performance; ice cover effect



32. AU - Rhoads, E.M.  
TI - Air cushion vehicle: A new source of transportation for the Arctic?  
SO - Northern Engineer, vol. 4, no. 2, Winter 1972, p 7-9  
LA - Eng  
IT - transportation; air cushion vehicles
33. AU - Liston, R.A.  
TI - Operational evaluation of the SK-5 air cushion vehicle in Alaska  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 243, Sep 1973, 39 p  
LA - Eng  
IT - air cushion vehicles; cold weather tests
34. AU - Ives, G.  
TI - Air cushion vehicle's operational use in Arctic  
SO - Petroleum Engineer International, vol. 46, no. 1, Jan 1974, p 64, 66  
LA - Eng  
IT - all-terrain vehicles; ice breaking; logistics; air cushion vehicles
35. AU - Liston, R.A.  
TI - Observations of surface effect vehicle performance  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 240, Apr 1973, 59 p  
LA - Eng  
IT - air cushion vehicles; Arctic terrain; design criteria
36. AU - Wang, C.J.  
TI - Advanced research projects agency, Arctic surface effect vehicle program  
SO - Canadian Aeronautics and Space Journal, vol. 18, no. 5, May 1972, p 123-127  
LA - Eng  
IT - research projects; air cushion vehicles
37. AU - Scheurich, P.R., Jr.; Kidd, M.A.  
TI - Results of preliminary parametric design analysis of an arctic surface effect vehicle  
SO - Canadian Aeronautics and Space Journal, vol. 18, no. 5, May 1972, p 129-134  
LA - Eng  
IT - air cushion vehicles; design criteria; ice cover effect; snow cover effect
38. AU - Benua, I.U.; Ozimov, L.V.  
TI - Air cushion vehicle  
SO - Soviet Inventions Illustrated. Section 3, Mechanical and General, Feb 1971, p 24E  
LA - Eng, Rus  
IT - air cushion vehicles

39. AU - Liston, R.A.  
TI - Surface effect vehicle engineering test procedures  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number SR 161, Aug 1971, 28 p  
LA - Eng  
IT - slopes; air cushion vehicles; performance; tests
40. TI - Air cushion vehicle thwarts barrier to winter water data  
SO - Environmental Science and Technology, vol. 3, no. 4, Apr  
1969, p 324-325  
LA - Eng  
IT - ice cover thickness; water temperature; measuring instruments;  
lake ice; air cushion vehicles
41. AU - Kelly, J.J.  
TI - SES Programs, civilian application  
OS - American Society of Civil Engineers, 345 East 47th Street,  
New York  
SO - American Society of Civil Engineers, New York, 1977
42. AU - Benson, J.L.  
TI - Amphibious Assault Landing Craft (AALC) advanced development  
program--turning technology into fleet capability  
OS - Association of Scientists and Engineers of NASSC, Department  
of the Navy, Washington, DC  
SO - Association of Scientists and Engineers of NASSC, Department  
of the Navy, Washington, DC, 1977, 26 p
43. AU - Guienne, P.F.  
TI - The 260-ton amphibious hovercraft--Naviplane N500  
SO - Journal of Hydronautics, Vol. 13, No. 2, Apr 1979, p 33-38
44. AU - Ellsworth, W.M.  
TI - Navy advanced ship programs  
OS - American Society of Civil Engineers, 345 East 47th Street,  
New York  
SO - David Taylor Naval Ship R&D Center. Proceedings, 1977
45. AU - Gersten, A.  
TI - A synthesis of AALC program air cushion vehicle seakeeping  
data  
OS - David Taylor Naval Ship R&D Center, Ship Performance  
Department, Bethesda, MD  
SO - National Technical Information Service Springfield, VA,  
1977, 78 p, ADA040122
46. TI - Proceedings of the 10th Canadian Symposium on Air Cushion  
Technology  
OS - Canadian Aeronautics and Space Institute, Montreal, Quebec,  
Canada  
SO - Report No. TR-2-77, N77-24012/5ST, 1977, 185 p

47. AU - Mantle, P.J.  
 TI - A technical summary of air cushion craft development  
 OS - David Taylor Naval Ship R&D Center, Bethesda, MD  
 SO - DTNSRDC-4727, Oct 75, 367 p, ADA0225839/GA
  
48. AU - Ikeda, K.; Moriya, H.  
 TI - Development and practical use of submersible dredger  
 OS - International Ocean Development Conference, Japanese Management Association, Tokyo, Japan  
 SO - Sumitomo Shipbuilding & Machine Company, Japan
  
49. AU - Mantle, P.J.  
 TI - Cushions and foils  
 SO - Society of Naval Architects and Marine Engineers, New York, Paper No. 2, 1976, 16 p
  
50. AU - Bingham, A.F.  
 TI - Hovercraft from a shipbuilder  
 OS - Kalerghi Publications, 51 Welbeck Street, London W1, England  
 SO - Vosper Thornycroft Limited, 1974, p 421-428
  
51. AU - Turner, D.G.W.  
 TI - Amphibious hover platforms  
 OS - Kalerghi Publications, 51 Welbeck Street, London W1, England  
 SO - Mackace Limited, 1974, p 261-263
  
52. AU - Edwards, T.B.  
 TI - Vehicle wheel suspension  
 OS - Department of the Army, Washington, DC  
 SO - Report number PAT-APPL-201 216, Patent-3 161 248
  
53. AU - Zhivotovskii, A.; Shenberg, V.; Minchenya, A.  
 TI - The "Sormovich" experimental air cushion vehicle  
 OS - Naval Intelligence Support Center, Translation Services Division, Washington, DC  
 SO - Reprot number NISC-Trans-3677, 1975, ADA012080/8GA
  
54. AU - Chaplin, J.B.  
 TI - Amphibious surface effect vehicle technology--past, present and future  
 SO - American Institute of Aeronautics and Astronautics, Paper No. 74-318, 1974, 20 p
  
55. AU - Colquhoun, L.R.  
 TI - Operational and technical problems of commercial hovercraft  
 SO - AIAA/SNAME Advanced Marine Vehicles Conference, New York, Paper No. 74-321, 1974
  
56. TI - Amphibious ice breaking craft  
 SO - Ship and Boat International, Vol. 27, No. 12, Dec 1974, p 20

57. AU - Wachnik, Z.G.  
TI - Air cushion vehicles--a new technology in the Navy  
SO - Naval Engineers Journal, Vol. 85, No. 4, Aug 1973, p 65-78
58. AU - Paddison, F.C.; Stone, A.M.  
TI - Transportation in the Arctic  
OS - Applied Physics Laboratory, John Hopkins University, Silver Spring, MD  
SO - APL-TG-1190, 1972, AD754381
59. TI - MLB/SERV (Motor life boat/surface effect rescue vehicle) operational study  
SO - Report number MLB/SERV-3960-20, 1973, 99 p, AD761460
60. TI - Bigger, faster hovercraft will carry cargo and troops  
SO - Product Engineering, Vol. 42, No. 1, Jan 1971, p 15-16
61. AU - Sullivan, P.A.; Placek, R.  
TI - Review of the status of air cushion technology including suggestions for the organization of a Canadian research and development programme  
SO - UTIAS Review, N33, 228 p
62. AU - Bloomfield, W.; Lauriat, T.B.  
TI - Some aspects of free turbine engine hovercraft control  
SO - Hovering Craft and Hydrofoil, Vol. 10, No. 12, Nov 1971, 5 p
63. AU - Ljungstrom, O.  
TI - Air Cushion Vehicles (ACV) in water transport. A critical analysis of future possibilities and application in Scandinavia  
SO - Report number APS-ME-35, ACTA Polytechnica Scandinavia, 1968, 220 p, PB-182980
64. AU - Abele, G.; Parrott, W.H.  
TI - Snow surface erosion from a peripheral jet cushion ACV  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 163, Oct 1971, 19 p  
LA - eng  
IT - snow surface; deformation; tests; air cushion vehicles; snow erosion
65. AU - Abele, G.; Liston, R.A.  
TI - Air cushion vehicle ground contact directional control devices  
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 76-45, Dec 1976, 15 p  
LA - eng  
IT - air cushion vehicles
66. AU - Rickard, W.E.  
TI - Preliminary ecological evaluation of the effects of air

- cushion vehicle tests on the Arctic tundra of northern Alaska  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
 Report Number SR 182, Sep 1972, 22 p  
 LA - Eng  
 IT - solar radiation; patterned ground; air cushion vehicles;  
 tundra soils; tundra vegetation; albedo; environmental tests
67. AU - Rickard, W.E.; Brown, J.  
 TI - Effects of vehicles on Arctic tundra  
 SO - Environmental conservation, Report Number MP 737, vol. 1, no. 1, Spring 1974, p 55-62  
 LA - Eng  
 IT - tundra terrain; all-terrain vehicles; damage; ground thawing
68. AU - Sterrett, K.F.  
 TI - Arctic environment and the Arctic surface effect vehicle  
 SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
 Report Number CR 76-01, Jan 1976, 28 p  
 LA - Eng  
 IT - air cushion vehicles; sea ice; topographic features; arctic climate
69. AU - Abele, G.  
 TI - Hovercraft ground contact directional control devices  
 SO - International Hovering Craft, Hydrofoil and Advanced Transit Systems Conference, 2nd, Amsterdam, May 17-20, 1976. Proceedings, Report Number MP 875, p 51-59, London, Kalergric Publications, 1976  
 LA - Eng  
 IT - tundra terrain; impact; all-terrain vehicles; air cushion vehicles; vehicle wheels
70. AU - Abele, G.; Parrott, W.H.  
 TI - Some effects of air cushion vehicle operations on deep snow  
 SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, Apr 24-28, 1972. Proceedings. Vol. 2, Report Number MP 887, p 214-241, Stockholm, Sweden, 1972  
 LA - Eng  
 IT - surface properties; tests; air cushion vehicles; snow depth; erosion
71. AU - Abele, G.  
 TI - Effects of hovercraft, wheeled and tracked vehicle traffic on tundra  
 SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 16th, Oct 7, 1976. Proceedings, Report Number MP 1123, Mar 1976, No. 116, p 186-215  
 LA - Eng  
 IT - air cushion vehicles; tracked vehicles; vehicle wheels; tundra vegetation; damage

72. AU - Slaughter, C.W.  
TI - Vehicle for the future  
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22,  
1976. Proceedings, Edited by M.N. Evans, Bureau of Land  
Management, Anchorage, AK, Aug 1976, p 272-279  
LA - Eng  
IT - ground thawing; air cushion vehicles; Arctic soils; Arctic  
terrain

Chapter IX - Vehicle models or modeling.

## Chapter IX

1. AU - Long, J.B.  
TI - Report on the model 843 Tucker Sno-Cat traverse vehicle  
OS - University of Wisconsin  
SO - University of Wisconsin, Geophysical Polar Research Center, Res. Rept. Ser. No. 62-5, Nov 1962, 40 p  
LA - Eng  
IT - vehicles-sno-cats
2. AU - Gran, R.  
TI - Monte Carlo analysis of a surface effect vehicle in a random ice field  
SO - Grumman Aerospace Corporation. Report, RM-554, Oct 1972, 24 p  
LA - Eng  
IT - computerized simulation; mathematical models; sea ice; pressure ridges; air cushion vehicles
3. AU - Hosoya, M.; Aragane, K.; Sato, K.  
TI - Test traveling of oversnow vehicle (model KD 601) for Japanese Antarctic research  
OTI - Nankyoku kansokuyo setsujosha (KD 601) no soko kiroku  
SO - Antarctic Rec. Tokyo, No. 30, Dec 1, 1967, p 40-50  
LA - Jap  
IT - vehicles; Showa Station
4. AU - Smith, M.; Nakano, Y.  
TI - Model analysis of vehicle trafficability with application to surface effect vehicles on sea ice fields  
SO - Journal of Terramechanics, Report Number MP 647, vol. 9, no. 2, 1973, p 65-82 For another version see RR 298  
LA - Eng  
IT - models; air cushion vehicles; sea ice; trafficability; statistical analysis
5. AU - Hibler, W.D., III.; Ackley, S.F.  
TI - Sea ice terrain model and its application to surface vehicle trafficability  
SO - Journal of Terramechanics, Report Number MP 693, vol. 12, no. 3/4, Dec 1975, p 171-190  
LA - Eng  
IT - sea ice; pressure ridges; air cushion vehicles; trafficability; models; terrain analysis
6. AU - Hibler, W.D., III.  
TI - Sea ice terrain and mobility model  
SO - Army Science Conference, West Point, June 1974. Proceedings. Vol. 1, p 447-454  
LA - Eng  
IT - ice surface; ice pressure; air cushion vehicles; sea ice; pack ice; trafficability



7. AU - Pierce, N.E.; Moser, E.H.  
 TI - Polar transportation equipment - tests on a model 4VL trackmaster  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA  
 Technical note, N-609, June 1964, 8 p  
 LA - Eng  
 IT - cold weather performance; cold weather tests; transportation; cargo; tracked vehicles
  
8. AU - Cullen, R.M.; Cullingford, G.; Mayfield, B.  
 TI - Rigid wheels in clay  
 SO - International Society for Terrain-Vehicle Systems, Second International Conference, Aug 29-Sept 2, 1966, Quebec.  
 Proceedings, Toronto, Univ. of Toronto Press, 1966, p 446-470  
 LA - Eng  
 IT - models; clay soils; vehicle wheels; tests; soil pressure; trafficability
  
9. AU - Beard, W.H.; Sherwood, G.E.  
 TI - Polar transportation equipment - one-ton power wagon with high-flotation tires  
 SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Report, R-401, 1965, 25 p  
 LA - Eng  
 IT - Antarctica; snow vehicles; transportation; cold weather performance
  
10. AU - Huston, J.C.; Johnson, D.B.  
 TI - Effect of the normal force dependence of cornering stiffness on the lateral stability of recreational vehicles  
 SO - Society of Automotive Engineers, Publication No. SP-463  
 IT - stability; vehicle directional control; vehicle dynamics; tires
  
11. AU - Taylor, D.L.  
 TI - Nonlinear stability and response of car-trailer combinations  
 SO - Society of Automotive Engineers, Publication No. SP-463  
 IT - vehicle dynamics; trailers; stability
  
12. AU - Kane, Thomas R.; Fossman, R.G.  
 TI - Experimental investigation of tire-roadway interaction  
 SO - Society of Automotive Engineers, Publication No. SP-463  
 IT - tires
  
13. AU - Bernard, J.E.; Vanderploeg, M.  
 TI - Static and dyanmic offtracking of articulated vehicles  
 SO - Society of Automotive Engineers, Publication No. SP-463  
 IT - vehicle dynamics; trailers; computer simulation
  
14. AU - Wickliffe, L.E.; Browne, A.L.  
 TI - Thermal conductivity measurement of tire materials  
 SO - Society of Automotive Engineers, Technical Paper No. 800179

- IT - heat transfer; materials testing; laboratory instruments;  
test equipment; thermal measurements
15. AU - Lam, C.P.; Guntur, R.R.; Wong, J.Y.  
TI - Evaluation of the braking performance of a tractor-semitrailer  
equipped with two different types of anti-lock systems  
SO - Society of Automotive Engineers, Technical Paper No. 791046  
IT - air brakes; antiskid devices; computer simulation; truck  
tractors; truck trailers
16. AU - Weeks, G.E.; Cost, T.L.  
TI - A finite element solution for the coupled dynamic interaction  
behavior of a flexible vehicle traveling on a flexible guideway  
SO - Society of Automotive Engineers, Proceedings No. P-83  
IT - vehicle dynamics; vehicle performance; structural analysis;  
computer simulation; mass transit
17. AU - Dull, D.; Harlow, S.; Krutz, G.  
TI - Increase traction with hydraulic assist drive  
SO - Society of Automotive Engineers, Technical Paper No. 790813  
IT - agricultural machinery; auxiliary power; four wheel drive;  
front wheel drive; hydrostatic transmissions
18. AU - Qualle, T.W.  
TI - Testing GT 601 gas turbine truck  
SO - Society of Automotive Engineers, Technical Paper No. 790771  
IT - turbine trucks; turbine engines; vehicle performance tests;  
truck operation-truck performance; truck tractors
19. AU - Nakamura, I.; Ikawa, K.  
TI - Analysis of steering force at low speed  
SO - Society of Automotive Engineers, Technical Paper No. 790739  
IT - steering; tires
20. AU - Jaquette, S.C.; Curran, R.T.; Politzer, J.L.  
TI - Computer simulation model for forecasting mileage accumulation  
and testing rate  
SO - Society of Automotive Engineers, Technical Paper No. 790704  
IT - program management; test facilities; simulation; cost analysis
21. AU - Velinsky, S.A.; White, R.A.  
TI - Increased vehicle energy dissipation due to changes in road  
roughness with emphasis on rolling losses  
SO - Society of Automotive Engineers, Technical Paper No. 790653  
IT - computer simulation; damping; fuel consumption; roads
22. AU - Kane, T.R.; Man, G.K.  
TI - Characterization of wheel-roadway interaction for recreational  
vehicles  
SO - Society of Automotive Engineers, Publication No. SP-443  
IT - tires; vehicle dynamics; vehicle performance

23. AU - Johnson, D.B.; Huston, J.C.; Gray, T.A.  
TI - The influence of drawbar flexibility and roll steer on the stability of articulated vehicles  
SO - Society of Automotive Engineers, Publication No. SP-443  
IT - stability; trailers; vehicle design; vehicle directional control; vehicle dynamics
24. AU - Huston, J.C.; Johnson, D.B.  
TI - Relative significance of parameters affecting lateral stability of articulated recreational vehicles  
SO - Society of Automotive Engineers, Publication No. SP-443  
IT - stability; trailers; vehicle design; vehicle directional control; vehicle dynamics
25. AU - Cobb, W.A.  
TI - Suspension parameter prediction using finite element analysis  
SO - Society of Automotive Engineers, Technical Paper No. 790376  
IT - computer simulation; structural analysis; suspension systems; vehicle directional control; vehicle dynamics
26. AU - Doyle, G.R., Jr.; Workman, G.H.  
TI - Prediction of track tension when traversing an obstacle  
SO - Society of Automotive Engineers, Technical Paper No. 790416  
IT - off-road vehicles; military vehicles; computer simulation
27. AU - Ribarits, J.I.; Aurell, J.; Andersers, E.  
TI - Ride comfort aspects of heavy truck design  
SO - Society of Automotive Engineers, Technical Paper No. 781067  
IT - truck design; ride evaluation; suspension systems
28. AU - Morello, L.; Piccolo, R.; Ippolito, L.  
TI - Fiat research center hybrid vehicle prototype  
SO - Society of Automotive Engineers, Technical Paper No. 790014  
IT - computer simulation; electric vehicles; energy conservation; engine controls; fuel economy
29. AU - Mallikarjunarao, C.; Fancher, P.  
TI - Analysis of the directional response characteristics of double tankers  
SO - Society of Automotive Engineers, Technical Paper No. 781064  
IT - hitches; stability; trailers; vehicle directional control; vehicle dynamics
30. AU - Gillespie, T.D.; Verma, M.K.  
TI - Analysis of the rollover dynamics of double-bottom tankers  
SO - Society of Automotive Engineers, Technical Paper No. 781065  
IT - truck operation-truck performance; truck design
31. AU - Chu, M.L.; Doyle, G.R.  
TI - Nondeterministic analysis of a four-wheeled model vehicle traversing a simulated random terrain

- SO - Society of Automotive Engineers, Technical Paper No. 780789  
 IT - mathematical analysis; mobility research; simulation;  
 suspension systems; vehicle dynamics
32. AU - Siegla, D.C.; Siewert, R.M.  
 TI - The variable stroke engine - problems and promises  
 SO - Society of Automotive Engineers, Technical Paper No. 780700  
 IT - spark ignition engines; fuel economy; exhaust emissions;  
 combustion
33. AU - McNutt, B.; Pirkey, D.; Dulla, R.; Miller, C.  
 TI - A comparison of fuel economy results from EPA tests and actual  
 in-use experience, 1974-1977 model year cars  
 SO - Society of Automotive Engineers, Technical Paper No. 780037  
 IT - fuel economy; statistics; data acquisition; regression  
 analysis; dynamometers
34. AU - Martz, J.W.; Smiley, R.G.; Kormos, J.G.  
 TI - Field testing of "Reference Vehicles" as an aid to the design  
 analysis process for earthmoving equipment  
 SO - Society of Automotive Engineers, Technical Paper No. 780485  
 IT - design; earthmoving equipment; structural analysis
35. AU - Brownfield, H.A.; Rogers, D.O.  
 TI - Analysis of 30 MPH frontal barrier utilizing half-scale metal  
 models  
 SO - Society of Automotive Engineers, Technical Paper No. 780366  
 IT - crash research; models; scale models; vehicle safety
36. AU - Townley, G.E.; Klahs, J.W.  
 TI - Dynamic simulation of an automotive body utilizing finite  
 element and modal synthesis techniques  
 SO - Society of Automotive Engineers, Technical Paper No. 780364  
 IT - computer applications; structural analysis
37. AU - Mencik, Z.; Tobler, W.E.; Blumberg, P.N.  
 TI - Simulation of wide-open throttle vehicle performance  
 SO - Society of Automotive Engineers, Technical Paper No. 780289  
 IT - computer simulation; models; passenger car performance;  
 simulation; vehicle performance
38. AU - Weir, D.H.; Zellner, J.W.  
 TI - Lateral-directional motorcycle dynamics and rider control  
 SO - Society of Automotive Engineers, Publication No. SP-428  
 IT - driver behavior; motorcycles
39. AU - Smith, J.R.; Tracy, J.C.; Potter, D.S.  
 TI - Tire rolling resistance - a speed dependent contribution  
 SO - Society of Automotive Engineers, Technical Paper No. 780255  
 IT - friction; tires

40. AU - Unnewehr, L.E.; Knoop, C.W.  
TI - Electrical component modeling and sizing for EV simulation  
SO - Society of Automotive Engineers, Technical Paper No. 780215  
IT - electric vehicles; electric drives; models; batteries
41. AU - White, K.E.  
TI - A digital computer program for simulating electric vehicle performance  
SO - Society of Automotive Engineers, Technical Paper No. 780216  
IT - electric propulsion; electric vehicles; simulation; vehicle dynamics
42. AU - Yoshida, S.  
TI - A scale model simulation of vehicle motions  
SO - Society of Automotive Engineers, Technical Paper No. 780168  
IT - models; simulation; stability; test equipment, tires
43. AU - Chiang, S.L.; Starr, D.S.  
TI - Using computer simulation to evaluate and improve vehicle handling  
SO - Society of Automotive Engineers, Technical Paper No. 780009  
IT - computer simulation; passenger car performance; vehicle performance; vehicle performance tests
44. AU - Brueck, D.M.; Ward, E.D.  
TI - A simplified method for the identification of vehicle suspension parameters  
SO - Society of Automotive Engineers, Technical Paper No. 770884  
IT - suspension systems; vehicle dynamics; test equipment; cylinder liners
45. AU - Lippmann, S.A.; Oblizajek, K.L.  
TI - From perceptions of vehicle disturbance to corrective adjustments of tires  
SO - Society of Automotive Engineers, Technical Paper No. 770868  
IT - automotive diagnosis; biomechanics; computer simulation; damping
46. AU - Smith, D.W.  
TI - Computer simulation of tractor ride for design evaluation  
SO - Society of Automotive Engineers, Technical Paper No. 770704  
IT - computer simulation; mathematical analysis; off-road vehicles; ride evaluation; vehicle dynamics; vibration
47. AU - Barone, M.R.  
TI - Impact vibrations of rolling tires  
SO - Society of Automotive Engineers, Proceedings No. P-71  
IT - tires; vibration
48. AU - O'Keefe, P.J.; Hutchins, M.L.  
TI - Tandem anti-lock systems for air braked vehicles

- SO - Society of Automotive Engineers, Technical Paper No. 770662  
IT - air brakes; antiskid devices; brakes; truck trailers
49. AU - Parekh, C.J.; Basas, J.E.; Kochawala, K.S.  
TI - Application of isoparametric finite elements in vehicle structural mechanics  
SO - Society of Automotive Engineers, Proceedings No. P-71  
IT - structural analysis
50. AU - Augustitus, J.A.; Kamal, M.M.; HOWell, L.J.  
TI - Design through analysis of an experimental automobile structure  
SO - Society of Automotive Engineers, Proceedings No. P-71  
IT - computer simulation; structural analysis
51. AU - Hieronimus, K.  
TI - A few aspects on the development of structural models  
SO - Society of Automotive Engineers, Proceedings No. P-71  
IT - computer simulation; structural analysis
52. AU - Hill, S.H.; Dodd, J.L.  
TI - A low NO/dx lightweight car diesel engine  
SO - Society of Automotive Engineers, Technical Paper No. 770430  
IT - diesel engines; exhaust emissions; fuel economy; multi-fuel engines
53. AU - Ahmed, S.R.  
TI - The calculation of the flow field past a van with the aid of a panel method  
SO - Society of Automotive Engineers, Technical Paper No. 770390  
IT - aerodynamics
54. AU - Yoshida, Y.; Muto, S.; Imaizumi, T.  
TI - Transient aerodynamic forces and moments on models of vehicles passing through cross-rind  
SO - Society of Automotive Engineers, Technical Paper No. 770391  
IT - aerodynamics; stability; vehicle safety
55. AU - Bergman, W.  
TI - Critical review of the state-of-the-art in the tire force and moment measurements  
SO - Society of Automotive Engineers, Technical Paper No. 770331  
IT - tires
56. AU - Bayazitoglu, Y.O.; Chace, M.A.  
TI - Dynamic analysis of a three-dimensional vehicle model undergoing large deflections  
SO - Society of Automotive Engineers, Technical Paper No. 770051  
IT - vehicle dynamics

57. AU - Morman, K.N., Jr.  
 TI - Non-linear model formulation for the static and dynamic analyses of front suspensions  
 SO - Society of Automotive Engineers, Technical Paper No. 770052  
 IT - suspension systems; mathematical analysis; vehicle dynamics; computer simulation
  
58. AU - Wheeler, P.  
 TI - Tracked vehicle ride dynamics computer program  
 SO - Society of Automotive Engineers, Technical Paper No. 770048  
 IT - computer simulation; military vehicle mobility; mobility research; ride evaluation; vehicle dynamics
  
59. AU - Barbarek, L.A.C.; Chiapetta, R.L.; Viergutz, O.J.  
 TI - Interactive trailer towing simulation  
 SO - Society of Automotive Engineers, Technical Paper No. 760791. Also published in SAE Transactions, 1976  
 IT - brakes; driver behavior; human performance; simulation; trailers
  
60. AU - Frisch, G.D.; O'Rourke, J.; D'Aulerio, L.  
 TI - The effectiveness of mathematical models as a human analog  
 SO - Society of Automotive Engineers, Publication No. SP-412  
 IT - biomechanics; crash research; human factors injuries; mathematical analysis; models
  
61. AU - Yoshimori, K.  
 TI - Vehicle controllability and human response characteristics  
 SO - Society of Automotive Engineers, Technical Paper No. 760780  
 IT - driver behavior; vehicle dynamics
  
62. AU - Winsor, F.J.  
 TI - Cornering compliance applied to dynamics of rolling vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 760711  
 IT - stability; vehicle directional control; vehicle dynamics
  
63. AU - Fleming, R.D.  
 TI - Fuel economy of light-duty diesel vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 760592  
 IT - diesel engines; diesel fuels; fuel consumption
  
64. AU - Morelli, A.; Fioravanti, L.; Cogotti, A.  
 TI - The body shape of minimum drag  
 SO - Society of Automotive Engineers, Technical Paper No. 760186  
 IT - aerodynamics; fuel consumption; vehicle design; automobile history; passenger car design; vehicle performance
  
65. AU - Blumberg, P.N.  
 TI - Powertrain simulation: a tool for the design and evaluation of engine control strategies in vehicles  
 SO - Society of Automotive Engineers, Technical Paper No. 760158  
 IT - simulation; emissions control; fuel consumption; engines; computer simulation; engine tests

66. AU - Majcher, J.S.; Michaelson, R.D.; Solomon, A.R.; Subhedar, J.W.  
TI - Analysis of vehicle suspensions with static and dynamic computer simulations  
SO - Society of Automotive Engineers, Technical Paper No. 760183. Also published in SAE Transactions, 1976  
IT - computer simulation; kinematics; Wankel rotating combustion engine; suspension systems
67. AU - Holmes, H.R.  
TI - Practical economic aspects of tractor/trailer aerodynamics  
SO - Society of Automotive Engineers, Technical Paper No. 760103. Also published in SAE Transactions, 1976  
IT - diesel engines; aerodynamics; construction equipment operation; truck tractors; truck trailers
68. AU - Gillespie, T.D.  
TI - Front brake interactions with heavy vehicle steering and handling during braking  
SO - Society of Automotive Engineers, Technical Paper No. 760025. Also published in SAE Transactions, 1976  
IT - steering; air brakes; brakes; computer simulation; vehicle directional control; vehicle dynamics
69. AU - Pepoy, R.A.  
TI - Commercial vehicle braking simulation: problem or solution to the vehicle manufacturer  
SO - Society of Automotive Engineers, Technical Paper No. 760028  
IT - air brakes; computer simulation; truck design; simulation tires; vehicle performance
70. AU - Larsen, T.L.  
TI - Remotely piloted vehicle technology development using the XQM-103 research test vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 751109  
IT - military aircraft; electric equipment-electronic; aircraft design; flight testing
71. AU - Murrell, J.D.  
TI - Factors affecting automotive fuel economy  
SO - Society of Automotive Engineers, Technical Paper No. 750958  
IT - emissions control; engines; fuel consumption; passenger car performance; regression analysis; weight measurements
72. AU - Maityaais, M.  
TI - The fatigue life of vehicle frame structures  
SO - Society of Automotive Engineers, Technical Paper No. 750968. Also published in SAE Transactions, Vol 84, 1975  
IT - fatigue; fracture strength; frames; reliability; bus design; stresses; structures; couplings



73. AU - Simons, W.K.  
TI - A new concept in cab-over-engine truck design  
SO - Society of Automotive Engineers, Technical Paper No. 751017  
IT - truck design; vehicle design; vehicle performance tests
74. AU - Ohtsubo, K.; Ward, E.D.  
TI - A nonlinear automatic feedback blade controller for improved bulldozer performance  
SO - Society of Automotive Engineers, Technical Paper No. 750819.  
Also published in SAE Transactions, Vol 84, 1975  
IT - underwater equipment; vehicle dynamics; hydraulic systems
75. AU - Hoepfl, J.R.; Ballendux, G.M.  
TI - Allis-Chalmers power shift transmission - a new option for the models 7040 and 7060 agricultural tractors  
SO - Society of Automotive Engineers, Technical Paper No. 750858  
IT - agricultural machinery; transmissions; truck tractors
76. AU - Bauer, P.T.; Servais, R.A.  
TI - Criteria for choosing and evaluating aerodynamic devices for reducing fuel consumption of trucks  
SO - Society of Automotive Engineers, Technical Paper No. 750701  
IT - aerodynamics; fuel consumption; truck operation-truck performance
77. AU - Cottingham, E.R.  
TI - An automatic transmission in line haul vehicles after two years of fleet evaluation  
SO - Society of Automotive Engineers, Technical Paper No. 750730  
IT - automatic transmissions; hauling; fleet operation
78. AU - Crowe, D.T., Sr.  
TI - Six-by-six desert vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 750566  
IT - vehicle design; vehicle performance; power transmission; power take-off; hydraulic systems; cooling systems
79. AU - Sisson, T.R.; Wiley, G.H.  
TI - Use of dynamic modeling and analysis to cure ride quality problems  
SO - Society of Automotive Engineers, Technical Paper No. 750078  
IT - ride evaluation; vehicle performance tests
80. AU - McClelland, W.A.; Hay, J.K.; Klosterman, A.L.  
TI - Frame design analysis under complete vehicle boundary conditions  
SO - Society of Automotive Engineers, Technical Paper No. 741142  
IT - frames; test equipment; truck design
81. AU - Topping, R.W.  
TI - A primer on nonlinear, steady-state vehicle turning behavior

- SO - Society of Automotive Engineers, Technical Paper No. 741096  
IT - steering; suspension systems; tires
82. AU - Celeri, F.; Chiesa, A.  
TI - A method for the evaluation of the lateral stability of vehicles and tires  
SO - Society of Automotive Engineers, Technical Paper No. 741101  
IT - vehicle performance tests; tires; test equipment; stability
83. AU - Grant, J.W.  
TI - A technique for the validation of vehicle models using the road simulator  
SO - Society of Automotive Engineers, Technical Paper No. 740945  
IT - computer simulation; mathematical analysis; models; simulators
84. AU - Hodgetts, D.; Parkins, D.W.  
TI - Vibration modes of an automobile driveline  
SO - Society of Automotive Engineers, Technical Paper No. 740952.  
Also published in SAE Transactions, Vol. 83, 1974  
IT - vibration; suspension systems; vehicle performance tests; damping
85. AU - Martz, J.W.; McClelland, W.A.; Lemon, J.R.  
TI - Improved techniques for dynamic analysis of earthmoving equipment  
SO - Society of Automotive Engineers, Technical Paper No. 740425.  
Also published in SAE Transactions, Vol. 83, 1974  
IT - simulation; vehicle design; vehicle dynamics; vibration
86. AU - Wadleigh, K.H.  
TI - Application of finite element methods to complete automobile structural design evaluation  
SO - Society of Automotive Engineers, Proceedings No. P-52  
IT - structural analysis; structures; vehicle performance tests; models
87. AU - Nagy, L.I.  
TI - Static analysis via substructuring of an experimental vehicle front-end body structure  
SO - Society of Automotive Engineers, Proceedings No. P-52  
IT - bodies; structural analysis; structures; mathematical analysis
88. AU - Bernard, J.E.  
TI - A digital computer method for the prediction of the directional response of trucks and tractors-trailers  
SO - Society of Automotive Engineers, Technical Paper No. 740138.  
Also published in SAE Transactions, Vol. 83, 1974  
IT - computer simulation; truck operation-truck performance; vehicle dynamics; vehicle performance

89. AU - Winkler, C.B.  
TI - Analysis and computer simulation of the four elliptical leaf spring tandem suspension  
SO - Society of Automotive Engineers, Technical Paper No. 740136. Also published in SAE Transactions, Vol. 83, 1974  
IT - simulation; suspension systems; truck design; truck operation-truck performance
90. AU - Davenport, C.J.; Beard, R.A.  
TI - Optimization of vehicle cooling systems  
SO - Society of Automotive Engineers, Technical Paper No. 740089  
IT - engine cooling; cooling systems; heat exchangers; design
91. AU - Tenkel, F.G.  
TI - Computer simulation of automotive cooling systems  
SO - Society of Automotive Engineers, Technical Paper No. 740087. Also published in SAE Transactions, Vol. 83, 1974  
IT - computer simulation; automotive diagnosis; cooling; cooling systems
92. AU - Vail, C.F.  
TI - Illustrations of automotive finite element models - dynamics  
SO - Society of Automotive Engineers, Publication No. SP-387. Also published in SAE Transactions, Vol. 83, 1974  
IT - data recording; cost analysis; automobile industry; frames
93. AU - Hazemoto, T.  
TI - Analysis of lateral stability for doubles  
SO - Society of Automotive Engineers, Technical Paper No. 730688  
IT - stability; truck tractors; truck trailers; vehicle directional control
94. AU - Williams, A.  
TI - Model 200CA specialized high-speed tracklaying logging vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 730703  
IT - logging equipment
95. AU - Eshleman, R.L.; Scopelite, T.M.; Desai, S.  
TI - Parameter studies in articulated vehicle handling  
SO - Society of Automotive Engineers, Technical Paper No. 730673  
IT - computer simulation; truck operation-truck performance; truck trailers; vehicle directional control
96. AU - Eshleman, R.L.; Desai, S.; Hanify, D.W.  
TI - Analytical-experimental response of articulated vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 730674  
IT - computer simulation; truck trailers; vehicle directional control
97. AU - Vincent, R.J.; Krauter, A.I.  
TI - Tractor-semitrailer handling: a dynamic tractor suspension model

- SO - Society of Automotive Engineers, Technical Paper No. 730653  
 IT - axles; computer simulation; suspension systems;  
 truck tractors; vehicle dynamics
98. AU - Chalmers, W.G.  
 TI - A new concept in commercial vehicle suspension  
 SO - Society of Automotive Engineers, Technical Paper No. 730654  
 IT - rubber-synthetic rubber; suspension systems; truck design;  
 truck trailers
99. AU - Herod, D.M.; Nelson, M.V.; Wang, W.M.  
 TI - An engine dynamometer system for the measurement of converter  
 performance  
 SO - Society of Automotive Engineers, Technical Paper No. 730557  
 IT - dynamometers; emissions control; exhaust emissions
100. AU - Oldershaw, R.M.; Prestidge, A.F.; Birkmyre, R.C.  
 TI - Brake road testing in the laboratory  
 SO - Society of Automotive Engineers, Technical Paper No. 730563.  
 Also published in SAE Transactions, Vol. 82, 1973  
 IT - brakes; disc brakes; dynamometers; friction materials;  
 simulation
101. AU - Okada, T.; Takiguchi, T.; Nishioka, M.; Utsunomiya, G.  
 TI - Evaluation of vehicle handling and stability by computer  
 simulation at the first state of vehicle planning  
 SO - Society of Automotive Engineers, Technical Paper No. 730525.  
 Also published in SAE Transactions, Vol. 82, 1973  
 IT - computer simulation; stability; steering; tires; vehicle  
 performance
102. AU - Speckhart, F.H.  
 TI - A computer simulation for three-dimensional vehicle dynamics  
 SO - Society of Automotive Engineers, Technical Paper No. 730526  
 IT - computer simulation; vehicle directional control; vehicle  
 dynamics
103. AU - Borowski, V.J.; Steury, R.L.; Lubkin, J.L.  
 TI - Finite element dynamic analysis of an automotive frame  
 SO - Society of Automotive Engineers, Technical Paper No. 730506  
 IT - computer simulation; frames; structural analysis; vehicle  
 dynamics
104. AU - Hickner, G.B.  
 TI - Dynamic behavior of recreational vehicles during braking and  
 steering  
 SO - Society of Automotive Engineers, Technical Paper No. 730524  
 IT - brakes; computer simulation; steering; trailers; vehicle  
 dynamics

105. AU - George, R.J.  
TI - Determination of natural frequencies and mode shapes of chassis frames  
SO - Society of Automotive Engineers, Technical Paper No. 730504  
IT - computer applications; frames; models; vehicle dynamics; vibration
106. AU - Metz, L.D.; Sensenbrenner, K.  
TI - The influence of roughness elements on laminar to turbulent boundary layer transition as applied to scale model testing of automobiles  
SO - Society of Automotive Engineers, Technical Paper No. 730233  
IT - aerodynamics; mathematical analysis; vehicle dynamics; wind tunnel testing
107. AU - Flanigan, D.L.  
TI - Testing for an automotive frame to determine dynamic properties  
SO - Society of Automotive Engineers, Technical Paper No. 730505  
IT - computer simulation; damping; frames; models; structures; vehicle dynamics; vibration
108. AU - Brown, G.J.  
TI - Aerodynamic disturbances encountered in highway passing situations  
SO - Society of Automotive Engineers, Technical Paper No. 730234  
IT - aerodynamics; vehicle directional control; vehicle safety; wind tunnel testing
109. AU - Hucho, W.H.; Emmelmann, H.J.  
TI - Theoretical prediction of the aerodynamic derivatives of a vehicle in crosswind gusts  
SO - Society of Automotive Engineers, Technical Paper No. 730232.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - aerodynamics; vehicle directional control
110. AU - Bueler, R.C.; Falk, E.J.  
TI - A practical approach to the selection and sizing of brakes to meet FMVSS-121  
SO - Society of Automotive Engineers, Technical Paper No. 730198  
IT - air brakes; regulations
111. AU - Bernard, J.E.  
TI - A digital computer method for the prediction of braking performance of trucks and tractor-trailers  
SO - Society of Automotive Engineers, Technical Paper No. 730181.  
Also published in SAE Transactions, Vol. 82, 1973  
IT - antiskid devices; axles; brakes; computer simulation; suspension systems; tires

112. AU - Olsson, G.R.  
TI - Effects of tire slip on the handling performance of tractor-semitrailers in braking maneuvers  
SO - Society of Automotive Engineers, Technical Paper No. 730184  
IT - air brakes; antiskid devices; tires; truck trailers
113. AU - Weir, D.H.; McRuer, D.T.  
TI - Measurement and interpretation of driver steering behavior and performance  
SO - Society of Automotive Engineers, Technical Paper No. 730098  
IT - driver behavior; driving simulators; vehicle directional control
114. AU - Seaberg, J.D.; Etter, J.R.; Records, L.R.  
TI - Remotely piloted vehicle technology  
SO - Society of Automotive Engineers, Technical Paper No. 720857  
IT - aircraft instruments; radio equipment; remote control
115. AU - Krauter, A.I.; Wilson, R.K.  
TI - Simulation of tractor-semitrailer handling  
SO - Society of Automotive Engineers, Technical Paper No. 720922.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - computer simulation; tires; truck trailers; vehicle dynamics
116. AU - Butler, J.M., Buerschinger, D.R.  
TI - WABCO'S 200-ton truck electromechanical drive system  
SO - Society of Automotive Engineers, Technical Paper No. 720754  
IT - electric drives; mining equipment
117. AU - Poore, B.B.; Wright, G.; Romig, B.E.  
TI - Evaluation technique - turbine engines and transmissions for off-road vehicles  
SO - Society of Automotive Engineers Technical, Paper No. 720759  
IT - computer simulation; transmissions; turbine engine controls
118. AU - Zorn, W.  
TI - The WABCO 150-ton electric truck - facts and features  
SO - Society of Automotive Engineers, Technical Paper No. 720374  
IT - electric vehicles; mining equipment
119. AU - Kyropoulos, P.  
TI - Human factors methodology in the design of the driver's workspace in trucks  
SO - Society of Automotive Engineers, Publication No. SP-367.  
Also published in SAE Transactions, Vol. 81, 1972  
IT - human engineering; simulators; truck design
120. AU - Locke, W.S.  
TI - Evolution of an air suspension for trucks  
SO - Society of Automotive Engineers, Technical Paper No. 720105  
IT - suspension systems

121. AU - White, R.A.; Korst, H.H.  
TI - The determination of vehicle drag contributions from coast-down tests  
SO - Society of Automotive Engineers, Technical Paper No. 720099. Also published in SAE Transactions, Vol. 81, 1972  
IT - aerodynamics; mathematical analysis; tests; tires; vehicle performance tests; wind tunnel testing
122. AU - Koch, L.G.  
TI - Power train-vehicle modeling to simulate shifting transients of off-highway vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 720044. Also published in SAE Transactions, Vol. 81, 1972  
IT - clutches; computer simulation; power transmission; ride evaluation; transmissions; vehicle dynamics; vibration
123. AU - Davis, J.C.  
TI - Modal modeling techniques for vehicle shake analysis  
SO - Society of Automotive Engineers, Technical Paper No. 720045  
IT - computer simulation; structural analysis; vehicle dynamics; vibration
124. AU - Fujiwara, Y.; Nakayasu, M.  
TI - An analysis of vibrational modes of vehicle steering mechanisms  
SO - Society of Automotive Engineers, Technical Paper No. 710627  
IT - steering; suspension systems; tires; vibration
125. AU - Wollam, J.M.  
TI - Generalized tracked and wheeled vehicle automotive performance model  
SO - Society of Automotive Engineers, Technical Paper No. 710628  
IT - computer simulation; vehicle performance
126. AU - Pershing, R.L.  
TI - Simulating tractive performance  
SO - Society of Automotive Engineers, Technical Paper No. 710525  
IT - computer simulation; vehicle performance
127. AU - Unruh, D.H.  
TI - Determination of wheel loader static and dynamic stability  
SO - Society of Automotive Engineers, Technical Paper No. 710526  
IT - computer simulation; construction equipment design; vehicle dynamics
128. AU - McHenry, R.R.  
TI - Research in automobile dynamics - a computer simulation of general three-dimensional motions  
SO - Society of Automotive Engineers, Technical Paper No. 710361. Also published in SAE Transactions, Vol. 80, 1971  
IT - brakes; computer simulation; suspension systems; tires; vehicle dynamics

129. AU - Dornfeld, K.A.  
TI - Transmission transients produced in range shifting - a digital computer simulation  
SO - Society of Automotive Engineers, Technical Paper No. 710246  
IT - automatic transmissions; computer simulation
130. AU - Kurajian, G.M.; Burr, H.  
TI - An analog computer method for determining "g" loads and resulting motions in automobile and truck wheel-frame systems  
SO - Society of Automotive Engineers, Technical Paper No. 710165  
IT - computer simulation; suspension systems
131. AU - Van Deusen, B.D  
TI - Truck suspension system optimization  
SO - Society of Automotive Engineers, Technical Paper No. 710222.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - computer simulation; military vehicles; suspension systems
132. AU - Hickner, G.B.; Elliott, J.G.; Cornell, G.A.  
TI - Hybrid computer simulation of the dynamic response of a vehicle with four-wheel adaptive brakes  
SO - Society of Automotive Engineers, Technical Paper No. 710225  
IT - brakes; computer simulation; vehicle dynamics
133. AU - Murphy, R.W.; Limpert, R.; Segel, L.  
TI - Development of braking performance requirements for buses, trucks, and tractor-trailers  
SO - Society of Automotive Engineers, Technical Paper No. 710046.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - brakes; bus operation-bus performance; truck operation-truck performance
134. AU - Daberkoe, C.W.  
TI - The vehicle application of tire/wheel rolling smoothness controls  
SO - Society of Automotive Engineers, Technical Paper No. 710088  
IT - tires; wheels
135. AU - Mikulcik, E.C.  
TI - The dynamics of tractor-semitrailer vehicles: the jackknifing problem  
SO - Society of Automotive Engineers, Technical Paper No. 710045.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - brakes; suspension systems; tires, truck trailers; vehicle dynamics
136. AU - Selna, L.; Salinas, D.  
TI - Dynamic analysis of automotive structural systems  
SO - Society of Automotive Engineers, Technical Paper No. 700844.  
Also published in SAE Transactions, Vol. 79, 1970  
IT - crash research; mathematical analysis; structural analysis; vehicle dynamics



137. AU - Landon, G.W.  
TI - Model 10 brake test instrument  
SO - Society of Automotive Engineers, Proceedings No. P-30  
IT - brakes; test equipment
138. AU - Figart, W.T.; Leisenring, R.L.; Silvestri, W.B.  
TI - The RC engine - a new approach to reduce costs  
SO - Society of Automotive Engineers, Technical Paper No. 700273  
IT - cost analysis; rotary combustion engines
139. AU - Bergman, W.  
TI - Effects of compliance on vehicle handling properties  
SO - Society of Automotive Engineers, Proceedings No. P-30  
IT - steering; vehicle directional control
140. AU - Hickner, G.B.; Howard, D.W.  
TI - Analog simulation as a design tool for advanced braking concepts  
SO - Society of Automotive Engineers, Technical Paper No. 700157  
IT - brakes; computer simulation
141. AU - Okada, T.; Sagishima, T.  
TI - Effect of tractive force on directional stability and controllability of vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 690527  
IT - front wheel drive; steering; tires; vehicle directional control
142. AU - Julien, C.A.; Hung, H.M.  
TI - Technique in system identification for dynamic mechanical systems  
SO - Society of Automotive Engineers, Technical Paper No. 690497  
IT - computer simulation; mathematical analysis; models; suspension systems
143. AU - Kohno, T.; Tsuchiya, S.; Komoda, N.  
TI - On the vehicle dynamic response to the steering control: experimental evaluation of the response and analytical approach to the design of the Performance with seven degree model  
SO - Society of Automotive Engineers, Technical Paper No. 690488  
IT - steering, suspension systems; tests; tires; vehicle directional control
144. AU - Gray, J.T., Jr.  
TI - Soil bin scale-model testing  
SO - Society of Automotive Engineers, Technical Paper No. 690357  
IT - construction equipment design; dimensional analysis; models; test facilities
145. AU - Gelb, G.H.; Richardson, N.A.; Wang, T.C.; DeWolf, R.S.  
TI - Design and performance characteristics of hybrid vehicle power train

- SO - Society of Automotive Engineers, Technical Paper No. 690169  
 IT - batteries; computer simulation; electric vehicles; vehicle design
146. AU - Howe, G.H.; Wells, C.G.  
 TI - The air-cell suspension system - a solution to off-road mobility problems  
 SO - Society of Automotive Engineers, Technical Paper No. 690152  
 IT - computer simulation; military vehicles; suspension systems
147. AU - Herling, W.R.; Markow, E.G.  
 TI - Elliptical wheel concepts  
 SO - Society of Automotive Engineers, Technical Paper No. 690153  
 IT - military vehicle mobility; wheels
148. AU - Walther, W.D.; Gossard, D.; Fensel, P.  
 IT - Truck ride - a mathematical and empirical study  
 SO - Society of Automotive Engineers, Technical Paper No. 690099.  
 Also published in SAE Transactions, Vol. 78, 1969  
 IT - ride evaluation
149. AU - Herman, A.  
 TI - Underwater navigation and reconnaissance trainer  
 SO - Society of Automotive Engineers, Technical Paper No. 690029  
 IT - simulators; underwater vehicles
150. AU - Williamson, S.O.  
 TI - Vehicle drive-line dynamics  
 SO - Society of Automotive Engineers, Technical Paper No. 680584  
 IT - computer simulation; data acquisition; shock; transmissions; vehicle dynamics; vibration
151. AU - Moesta, A.W., Jr.  
 TI - Modern development of mechanical spring truck seating  
 SO - Society of Automotive Engineers, Technical Paper No. 670044  
 IT - seats; springs
152. AU - Forsyth, R.W.; Forsyth, J.P.  
 TI - Design and development of the TerraStar marginal-terrain amphibian  
 SO - Society of Automotive Engineers, Technical Paper No. 680535.  
 Also published in SAE Transactions, Vol. 77, 1968  
 IT - amphibious vehicles; military vehicles
153. AU - Goodenow, G.L.; Kolhoff, T.R.; Smithson, F.D.  
 TI - Tire-road friction measuring system - a second generation  
 SO - Society of Automotive Engineers, Technical Paper No. 680137.  
 Also published in SAE Transactions, Vol. 77, 1968  
 IT - data processing; friction; roads; test equipment

154. AU - Hoppe, C.H.  
TI - Design for the rough terrain environment  
SO - Society of Automotive Engineers, Technical Paper No. 680098  
IT - computer applications; military vehicle mobility; mobility research; vehicle dynamics
155. AU - Segel, L.; Murphy, R.W.  
TI - Dynamic modeling in engineering  
SO - Society of Automotive Engineers, Proceedings No. P-21. Also published in SAE Transactions, Vol. 76, 1968  
IT - aerodynamics; assisted take-off and landing; computer simulation; rotor blades; vibration
156. AU - Chiesa, A.; Rinonapoli, L.  
TI - Vehicle stability studied with a non-linear seven degree model  
SO - Society of Automotive Engineers, Technical Paper No. 670476. Also published in SAE Transactions, Vol. 76  
IT - mathematical analysis; stability; steering; suspension systems; tires; vehicle directional control
157. AU - Hamann, W.C.  
TI - Analytical prediction of vehicle handling behavior  
SO - Society of Automotive Engineers, Technical Paper No. 670192  
IT - computer simulation; models; vehicle directional control
158. AU - Ehrlich, I.R.  
TI - Place of model tests in vehicle development  
SO - Society of Automotive Engineers, Technical Paper No. 670169  
IT - military vehicles; mobility research; models; operations research; tests
159. AU - Nordeen, D.L.  
TI - Analysis of tire lateral forces and interpretation of experimental tire data  
SO - Society of Automotive Engineers, Technical Paper No. 670173. Also published in SAE Transactions, Vol. 76  
IT - models; tires; vehicle directional control
160. AU - McKenzie, R.D.; Howell, W.M.; Skaar, D.E.  
TI - Computerized evaluation of driver-vehicle-terrain systems  
SO - Society of Automotive Engineers, Technical Paper No. 670168. Also published in SAE Transactions, Vol. 76  
IT - computer simulation; military vehicles; mobility research; models; vibration
161. AU - Gross, D.S.; Sekscienski, W.S.  
TI - Some problems concerning wind tunnel testing of automotive vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 660385. Also published in SAE Transactions, Vol. 75  
IT - wind tunnel testing; aerodynamics; models; vehicle performance

162. AU - Van Deusen, B.D.  
TI - Analytical techniques for designing riding quality into automotive vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 670021. Also published in SAE Transactions, Vol. 76  
IT - computer simulation; vibration
163. AU - Sponsler, W.B.  
TI - Preliminary mobility tests of a scale model lunar roving vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 660147  
IT - lunar vehicles; mobility research; soil mechanics; suspension systems
164. AU - Saibel, E.; Tsao, M.C.  
TI - Further investigations in vehicle dynamics  
SO - Society of Automotive Engineers, Technical Paper No. 700173  
IT - suspension systems; vehicle dynamics
165. AU - Kronogard, S.O.; Rosen, C.G.A.  
TI - Matching gas turbine propulsion systems to vehicles  
SO - Society of Automotive Engineers, Technical Paper No. 680539  
IT - transmissions; turbine engines; turbine trucks
166. AU - Dugoff, H.; Fancher, P.S.; Segel, L.  
TI - An analysis of tire traction properties and their influence on vehicle dynamic performance  
SO - Society of Automotive Engineers, Proceedings No. P-30. Also published in SAE Transactions, Vol. 79, 1970  
IT - computer simulation; tires
167. AU - Bartlett, G.E.; Belsdorf, M.R.; Deutschman, J.N.; Smith, R.L.  
TI - On the prediction of off-road vehicle system mobility  
SO - Society of Automotive Engineers, Technical Paper No. 690150. Also published in SAE Transactions, Vol. 78, 1969  
IT - computer simulation; military vehicle mobility
168. AU - Heffley, R.K.  
TI - Aerodynamics of passenger vehicles in close proximity to trucks and buses  
SO - Society of Automotive Engineers, Technical Paper No. 730235. Also published in SAE Transactions, Vol. 82, 1973  
IT - aerodynamics; bus design; vehicle dynamics; wind tunnel testing
169. AU - Orlandea, N.; Chace, M.A.  
TI - Simulation of a vehicle suspension with the ADAMS computer program  
SO - Society of Automotive Engineers, Technical Paper No. 770053  
IT - computer applications; computer simulation

170. AU - Shryock, R.A.; Klahs, J.W.; Dieterich, D.A.  
TI - System modeling techniques to improve the ride and vibration isolation characteristics of heavy equipment  
SO - Society of Automotive Engineers, Proceedings No. P-71  
IT - computer simulation; vehicle dynamics; vibration
171. AU - Sloss, D.A., Jr.; Brady, P.M., Jr.  
TI - Evaluation of the Landing Vehicle Assault (LVA) over-land performance  
SO - Society of Automotive Engineers, Technical Paper No. 780127  
IT - military vehicle mobility; models; amphibious vehicles; soil mechanics; mobility research
172. AU - Gurney, J.W.; Bernard, J.E.  
TI - The utilization of a computer simulation as an aid to Predict compliance with MVSS 121  
SO - Society of Automotive Engineers, Technical Paper No. 740137. Also published in SAE Transactions, Vol. 83, 1974  
IT - simulation
173. AU - Lippmann, S.A.; Oblizajek, K.L.  
TI - Lateral forces of passenger tires and effects on vehicle response during dynamic steering  
SO - Society of Automotive Engineers, Technical Paper No. 760033. Also published in SAE Transactions, 1976  
IT - tires; mathematical analysis
174. AU - Nuttall, C.J., Jr.; Rula, A.A.; Dugoff, H.J.  
TI - Computer model for comprehensive evaluation of cross-country vehicle mobility  
SO - Society of Automotive Engineers, Technical Paper No. 740426. Also published in SAE Transactions, Vol. 83, 1974  
IT - automobile industry; reliability; control systems; vehicle safety
175. AU - Grotewohl, A.  
TI - Suspension and steering of the VW 411 model year 1969  
SO - Society of Automotive Engineers, Technical Paper No. 690489  
IT - steering; suspension systems
176. AU - Bickerstaff, D.J.  
TI - The handling properties of light trucks  
SO - Society of Automotive Engineers, Technical Paper No. 760710  
IT - suspension systems; truck design; truck operation-truck performance; vehicle dynamics
177. AU - Watson, C.G.  
TI - The determination of the "Ride Transfer" characteristic for a stationary, transiently excited motor vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 710286  
IT - computer simulation; ride evaluation; vibration

178. AU - Cortese, A.D.; Rockafellow, C.S.  
TI - General Motors proving ground tire cornering test vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 710092.  
Also published in SAE Transactions, Vol. 80, 1971  
IT - test equipment; tires
179. AU - Harrison, W.L.; Knight, S.J.; Liston, R.A.  
TI - Vehicle performance over snow; math-model validation study  
SO - U.S. Army Cold Regions Research and Engineering Laboratory,  
Report Number TR 268, Dec 1975, 84 p, 11 refs. Includes as App. C,  
USAEWES methodology for predicting vehicle performance in subarctic  
snows by S.J. Knight, and, as App. D, Land Locomotion Laboratory  
method of prediction of shallow and deep snow vehicle performance  
by R.A. Liston  
LA - Eng  
IT - vehicles; snow mechanics; snow depth; mathematical models;  
tracked vehicles; vehicle wheels
180. AU - Wong, L.T.; Clemens, W.J.  
TI - Power train matching for better fuel economy  
SO - Society of Automotive Engineers, Technical Paper No. 790045  
IT - fuel economy; computer simulation; exhaust emissions; vehicle  
performance; computer applications
181. AU - Muto, S.; Ishihara, T.  
TI - The J.A.R.I. full-scale wind tunnel  
SO - Society of Automotive Engineers, Technical Paper No. 780336  
IT - aerodynamics; test equipment; vehicle performance tests;  
instruments; test facilities
182. AU - Freitag, D.R.  
TI - Soil is an engineering material  
SO - Society of Automotive Engineers, Technical Paper No. 710511  
IT - soil mechanics
183. AU - Scholl, R.D.  
TI - Stability analysis of an articulated steering system  
SO - Society of Automotive Engineers, Technical Paper No. 710527  
IT - electrohydraulic effect; steering
184. AU - Van Dorn, J.W.; Goldberg, G.L.  
TI - Frame stress analysis with programmed load wheel inputs via  
plastic models  
SO - Society of Automotive Engineers, Technical Paper No. 710596  
IT - computer simulation; frames; models; passenger car design

Chapter X - Air cushion vehicles.

## Chapter X

1. AU - McMorran, J.B.  
TI - New York State's role in meeting total transportation needs  
SO - Society of Automotive Engineers, Technical Paper No. 690383  
IT - highways; transportation
2. AU - Fielding, P.G.  
TI - Procedure for assessing the air cushion vehicle with other off-road vehicles  
SO - Society of Automotive Engineers, Publication No. SP-261. Also published in SAE Transactions Vol. 74  
IT - ground effect machines; military vehicles; operations research; systems engineering
3. AU - Chaplin, J.B.; Eggington, W.J.  
TI - New York City and the air cushion vehicle - the challenge to the engineer  
SO - Society of Automotive Engineers, Technical Paper No. 650418  
IT - ground effect machines
4. AU - Douglas, O.; Burr, C.E.  
TI - Potential of the air cushion vehicle for off-road mobility  
SO - Society of Automotive Engineers, Technical Paper No. 690148  
IT - amphibious vehicles; ground effect machines; military vehicle mobility; mobility research
5. AU - Brown, M.W.  
TI - Navy application of the ACV to amphibious operations  
SO - Society of Automotive Engineers, Technical Paper No. 700840  
IT - amphibious vehicles; ground effect machines
6. AU - Wigotsky, V.W.  
TI - The pressure for transportation balance  
SO - Society of Automotive Engineers, Technical Paper No. 700187  
IT - transportation
7. AU - House, W.C.; Eggington, W.J.; Lysdale, C.A.  
TI - Evolution of the air cushion  
SO - Society of Automotive Engineers, Technical Paper No. 710182  
IT - ground effect machines
8. AU - Garner, A.M.  
TI - The design and operational experience of the TTI T4x ACV in northern Canada  
SO - Society of Automotive Engineers, Technical Paper No. 710186  
IT - amphibious vehicles; ground effect machines
9. AU - Sullivan, P.A.  
TI - A review of the status of the technology of the air cushion vehicle  
SO - Society of Automotive Engineers, Technical Paper No. 710183.



Also published in SAE Transactions, Vol. 80, 1971  
IT - ground effect machines

10. AU - Moore, R.G.  
TI - The fundamentals of ACV habitability and ride characteristics  
SO - Society of Automotive Engineers, Technical Paper No. 710534  
IT - ground effect machines; suspension systems
11. AU - Wu, Y.  
TI - A new pollution free tracked air cushion, air driven rapid transit vehicle  
SO - Society of Automotive Engineers, Proceedings No. P-44  
IT - ground effect machines; rapid transit
12. AU - Harder, A.  
TI - Airdraulic seat system  
SO - Society of Automotive Engineers, Technical Paper No. 720915  
IT - seats
13. AU - Garnault, A.  
TI - Technical and economical results of the use of air cushion in guided ground transportation  
SO - Society of Automotive Engineers, Technical Paper No. 730161  
IT - ground effect machines; monorails; suspension systems
14. AU - Liston, R.A.  
TI - Air cushion vehicle operations in Arctic and Subarctic terrain  
SO - Society of Automotive Engineers, Technical Paper No. 730038  
IT - cold weather operation; ground effect machines; human performance; military equipment; military transportation
15. AU - Latvala, E.K.  
TI - The TTI Hovair PRT System  
SO - Society of Automotive Engineers, Technical Paper No. 730162  
IT - electric vehicles; ground effect machines; rapid transit
16. AU - Hearn, D.L.; Van Dorn, N.H.  
TI - Modern transportation systems  
SO - Society of Automotive Engineers, Technical Paper No. 740225  
IT - transportation; rapid transit; systems engineering
17. AU - Nodell, W.R., Seely, J.H.  
TI - A chronology and development status of the amphibious assault landing craft JEFF(A)  
SO - Society of Automotive Engineers, Technical Paper No. 750717  
IT - aerospace production; automatic control; design; steels; nondestructive testing; all-terrain vehicles; ground effect machines; military transportation; military vehicle mobility

18. AU - Perez, D.J.  
TI - The development and flight testing of the XC-8A Air Cushion Landing System (ACLS)  
SO - Society of Automotive Engineers, Technical Paper No. 760920  
IT - ground effect machines; aircraft design; landing gear; aircraft operation-aircraft performance; amphibious vehicles
19. AU - O'Neill, E.B.  
TI - Landing Vehicle Assault (LVA)  
SO - Society of Automotive Engineers, Technical Paper No. 770340  
IT - military vehicles; stratified charge engines

